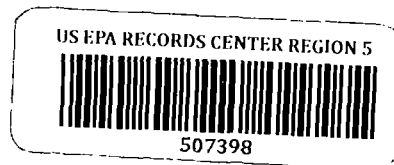


SCREENING SITE INSPECTION REPORT  
FOR  
VENUS LAB, INC.  
WOOD DALE, ILLINOIS  
U.S. EPA ID: ILD002992220  
SS ID: NONE  
TDD: F05-8912-100  
PAN: FILO319SB



928124

AUGUST 26, 1991



**ecology and environment, inc.**

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International Specialists in the Environment

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## 1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Venus Lab, Inc. (Venus), site under contract number 68-01-7347.

The site was initially discovered by Curt Bressner, City Manager, Wood Dale, Illinois, in July 1978. The site was discovered when Bressner reported that very acidic discharges from the site had damaged equipment in the city's sewer system (Langley 1978).

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Larry Winner of the Illinois Environmental Protection Agency (IEPA) and is dated August 8, 1984 (U.S. EPA 1984).

FIT prepared an SSI work plan for the Venus site under technical directive document (TDD) F05-8912-100, issued on December 13, 1989. The SSI work plan was approved by U.S. EPA on May 7, 1990. The SSI of the Venus site was conducted on November 14, 1990, under amended TDD F05-8912-100, issued on May 11, 1990.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of six soil samples and one monitoring well sample.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined

preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

## 2. SITE BACKGROUND

### 2.1 INTRODUCTION

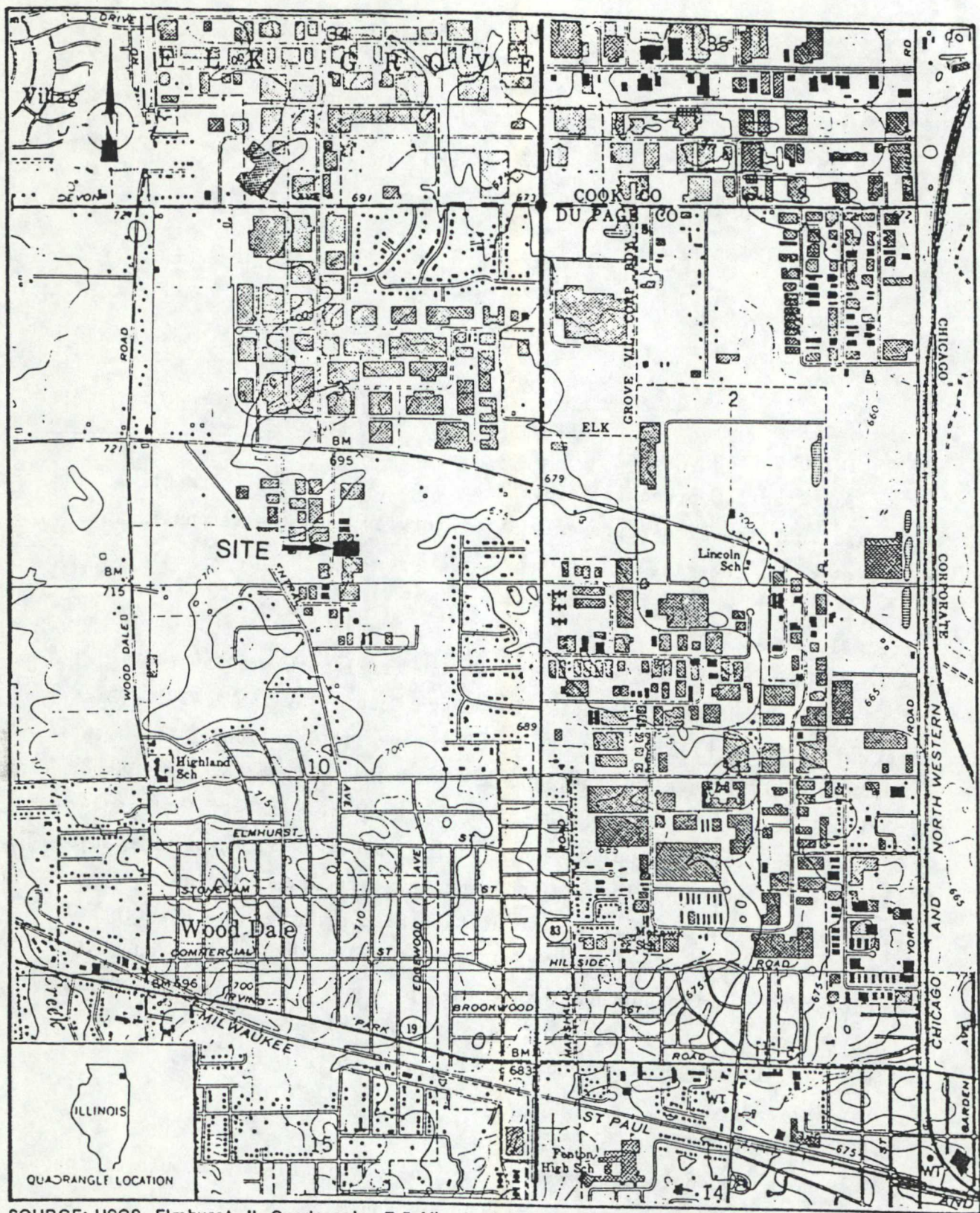
This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

### 2.2 SITE DESCRIPTION

The Venus site is located in an industrial park at 855 Lively Boulevard, Wood Dale, Illinois, in DuPage County (NW1/4SW1/4SW1/4SE1/4 sec. 3, T.40N., R.11E.) (see Figure 2-1 for site location). The site is approximately 1 acre in size, and is owned and operated by Venus Laboratories, Inc. (Venus Labs). The site is an active facility that manufactures janitorial supplies and cleaning solutions from sulfuric acid, isopropanol, butyl cellosolve and other raw materials, including chlorinated and aromatic solvents. Venus Labs also manufactures plastic containers for its products (Manolas and Manolas 1990). The Venus site is located near the northeastern corner of Wood Dale, Illinois. O'Hare International Airport is approximately 3 miles east of the site. A 4-mile radius map of the Venus site is provided in Appendix A.

### 2.3 SITE HISTORY

Venus Labs opened its Wood Dale facility in 1975. The use of the site prior to 1975 is not known (Manolas and Manolas 1990). The Venus site is an active facility that manufactures janitorial supplies. The principal raw materials used on-site include sulfuric acid, number 2 diesel fuel, and isopropanol. Compounds that are constituents of other



SOURCE: USGS, Elmhurst, IL Quadrangle, 7.5 Minute Series, 1963, Photorevised 1972 and 1980.

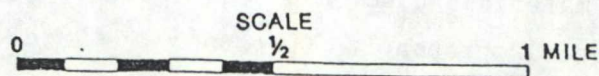


FIGURE 2-1 SITE LOCATION

raw materials include 1,1,1-trichloroethane, ethyltoluenes, xylene, trimethylbenzene, and 1,2- and 1,4-dichlorobenzene. Liquid raw materials are stored in 55-gallon drums, except for sulfuric acid, which is stored in 1,200-gallon aboveground storage tanks. Solid raw materials are stored in fiber drums in six on-site semi-trailers (Manolas and Manolas 1990).

Products are manufactured by combining between two and eight raw materials. Site representatives reported that there are no chemical reactions in the production processes, nor are any wastes generated. There are approximately 40 employees on-site. Plastic containers for the products are made and filled at the site (Manolas and Manolas 1990).

In July 1978, Curt Bressner, Wood Dale City Manager, reported to IEPA-Division of Water Pollution Control (DWPC) that acidic waste chemicals were being discharged in runoff via a gully in the southeast corner of the Venus site and entering an unnamed tributary of the Des Plaines River. Preliminary sampling determined that the pH of the runoff water in the unnamed tributary was 1.0 (Langley 1978). Bressner also reported that a sewage lift station was destroyed by chemical wastes that he believed had been discharged from the Venus site (Langley 1978). The City of Wood Dale sued Venus Labs for damages (Kaplan 1980), but the outcome of the lawsuit is not known.

In 1979 IEPA-DWPC collected samples from a storm water drain adjacent to the site and from the unnamed tributary (DuPage County Circuit Court 1985; Kaplan 1980). However, the cause, nature, extent, and results of DWPC's investigation are not known.

In July 1980, U.S. EPA received an anonymous tip from a Venus Labs employee. The employee alleged that chemicals were spilled from corroded storage tanks onto the ground and released into the unnamed tributary (Kaplan 1980). The investigation of the complaint was referred to IEPA-Division of Land Pollution Control (DLPC).

Brad Benning of IEPA-DLPC inspected the Venus site on July 15, 1980. He observed evidence of poor management of chemicals at the site, including stained soil and leaking 55-gallon drums. A surface water migration route was observed to the unnamed tributary. Two soil samples and one water sample were collected (Benning 1980). One of the soil samples was collected near an outdoor storage platform on the east side

of the Venus site. The second soil sample was collected from a gulley that leads from the site to the unnamed tributary. The water sample was collected from the unnamed tributary. IEPA's analysis of the samples detected aliphatic hydrocarbons and 2-butoxyethanol (butyl cellosolve) in the soil samples and trace amounts of aliphatic hydrocarbons in the water sample. IEPA's analysis did not detect any heavy metals in the three samples (IEPA 1980).

Benning conducted follow-up inspections in August and October 1980. He observed that site management practices had not changed since his July inspection (Benning 1980a, 1980b). Four soil samples were collected during the October inspection. IEPA did not detect any heavy metals, and no analysis for organic compounds are known to have been conducted (IEPA 1980a).

IEPA-DLPC and DWPC conducted approximately 26 inspections at the Venus site between July 1980 and April 1984. These inspections led to two lawsuits: one under the Federal Water Pollution Control Act and one under the Illinois Environmental Protection Act.

The former, United States of America v. Venus Laboratories, Inc. (U.S. v. Venus Labs), was settled in 1985 in a plea bargain (United States District Court 1985). The latter, People of the State of Illinois v. Venus Laboratories, Inc. (Illinois v. Venus Labs), was settled in 1985 in a consent decree (DuPage County Circuit Court 1985).

In U.S. v. Venus Labs, Venus Labs pleaded guilty to four counts of releasing chemicals into the unnamed tributary without a National Pollutant Discharge Elimination System permit. The releases cited in the plea bargain occurred on August 21, October 7, October 10, and October 23, 1980. Venus Labs paid a fine of \$10,000 (United States District Court 1985).

In Illinois v. Venus Labs, a consent decree was issued which required Venus Labs to take several corrective actions to prevent the release of chemicals from storage areas and containers at the Venus site. Venus Labs was also required to periodically inspect its storage areas, to install two monitoring wells, and to submit five monitoring well samples per year for analysis. Venus Labs also paid a \$4,000 fine (DuPage County Circuit Court 1985).

Another mandate of the consent decree required Venus Labs to test eight on-site underground storage tanks (USTs) for leaks and to repair or decommission any leaking USTs. The USTs were tested in spring 1985. Two of the eight USTs were determined to be leaking (Renner 1985). The corrective action, if any, taken by Venus Labs at that time is not known. The installation date of the USTs is also not known.

Additional on-site soil samples were collected during IEPA inspections in September 1985. IEPA's analysis detected several organic compounds, including 1,1,1-trichloroethane and tetrachloroethylene, in one of the three samples collected. Aliphatic hydrocarbons were detected in all three samples (IEPA 1985). No analyses for heavy metals are known to have been conducted for these samples.

In September 1987, IEPA performed another inspection at the Venus site during which four soil samples were collected. Copper, lead, and zinc were detected in IEPA's analysis of the samples (IEPA 1987). No analyses for organic compounds are known to have been conducted for these samples.

During the September 1987 inspection, IEPA-DWPC inspector Dean Lee observed evidence that chemicals had spilled or leaked onto the ground at the site (Lee 1987). It is not known whether legal action was pursued at that time to enforce the consent decree or whether new lawsuits against Venus Labs were filed or have been filed since 1985. No other federal, state, or local regulatory or enforcement actions are known to have been taken or to be in progress.

Preliminary drive-by inspections were conducted on July 20, 1990, and September 20, 1990, in order to prepare for on-site activities. A patch of tan-brown grass was observed near the center of the site's west lawn during the July 1990 drive-by inspection. During this inspection FIT did not observe any evidence of excavation at the Venus site. However, during the September 1990 inspection, a backhoe and a mound of what appeared to be dirt and construction debris were observed near the east border of the site.

In fall 1990, Venus Labs made three attempts to remove the on-site USTs. During the first attempt, the Wood Dale Fire Department observed that the excavation of soil from around the USTs was causing a roof over the outdoor storage platform to destabilize (Forrest 1991). Wood Dale

Fire Department issued a stop work order on September 18, 1990 (Manolas and Manolas 1990; Crocetti 1991). Work was not permitted to continue until the roof was secured.

In early October 1990, Venus Labs began to remove USTs from the ground. However, the work was stopped by Wood Dale Fire Department when Venus Labs refused to allow IEPA to oversee the work (Forrest 1991). One week after the FIT SSI, on November 19, 1990, a representative from the Illinois State Fire Marshall's Office stopped removal work when Venus Labs again refused to allow oversight by IEPA (Forrest 1991). On April 3, 1991, the USTs at the Venus site were removed under the supervision of representatives from IEPA, Illinois State Fire Marshall's Office, and the city of Wood Dale. Venus Labs' plans for the containment structure where the USTs were located are not known (Forrest 1991a).

### 3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

#### 3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Venus site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan with the following exceptions. One additional soil sample was collected to aid in the characterization of the site. Only one monitoring well sample was collected instead of the two specified in the work plan. File information indicated that two wells had been installed at the site; however, only one monitoring well was installed.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Venus site is provided in Appendix B.

#### 3.2 SITE REPRESENTATIVE INTERVIEW

Charles G. Hall, FIT team leader, conducted an interview with John Manolas, Vice President for Research and Development, and Elli Manolas, Office Manager, both of Venus Labs, on November 14, 1990, at 9:10 a.m. in an on-site office. Jennifer Dubay and Greg Youngstrom of FIT were also present at the interview. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

#### 3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the Venus site and surrounding area in

accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began at 10:20 a.m. on November 14, 1990, and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was accompanied by John Manolas; Mike Maresse, Plant Manager, Venus Labs; and Irving Dromsky, Ph.D., consultant, Allied Laboratories, Inc., during the reconnaissance inspection.

Reconnaissance Inspection Observations. The Venus site is located in an industrial park near the northeastern corner of Wood Dale, Illinois. The site is bordered on the north and south by other buildings in the industrial park. Lively Boulevard borders the site on the west. A parking lot for another industrial building borders the site on the northeast. An open field is adjacent to the site on the southeast. The Venus site is not fenced (see Figure 3-1 for site features).

The site is approximately 1 acre in size (300 feet by 160 feet). The majority of the site is occupied by the building that houses the manufacturing operations. The building is 100 feet wide and 200 feet long. An asphalt driveway on the north side of the building extends east from Lively Boulevard to the east side of the building. A shorter concrete driveway extends off of Lively Boulevard to a loading dock in the northwest corner of the building.

A lawn is located between the west side of the building and Lively Boulevard. The lawn is vegetated with grass, two trees, and shrubs. A small rectangular patch of grass is located in the southwest corner of the site. No discolored vegetation was observed during the SSI. An employee parking lot extends from Lively Boulevard along the south side of the building to the eastern border of the site. The south edge of this parking lot forms the south boundary of the site.

Sulfuric acid is stored in four aboveground 1,200-gallon tanks. The tanks are located on a concrete foundation near the southeast corner of the building. A 5,000-gallon, concrete, fiberglass-lined, sulfuric acid collection basin is located directly west of the sulfuric acid tanks. Directly east of the sulfuric acid tanks is a catch basin that is situated on the same level as the parking lot. This catch basin

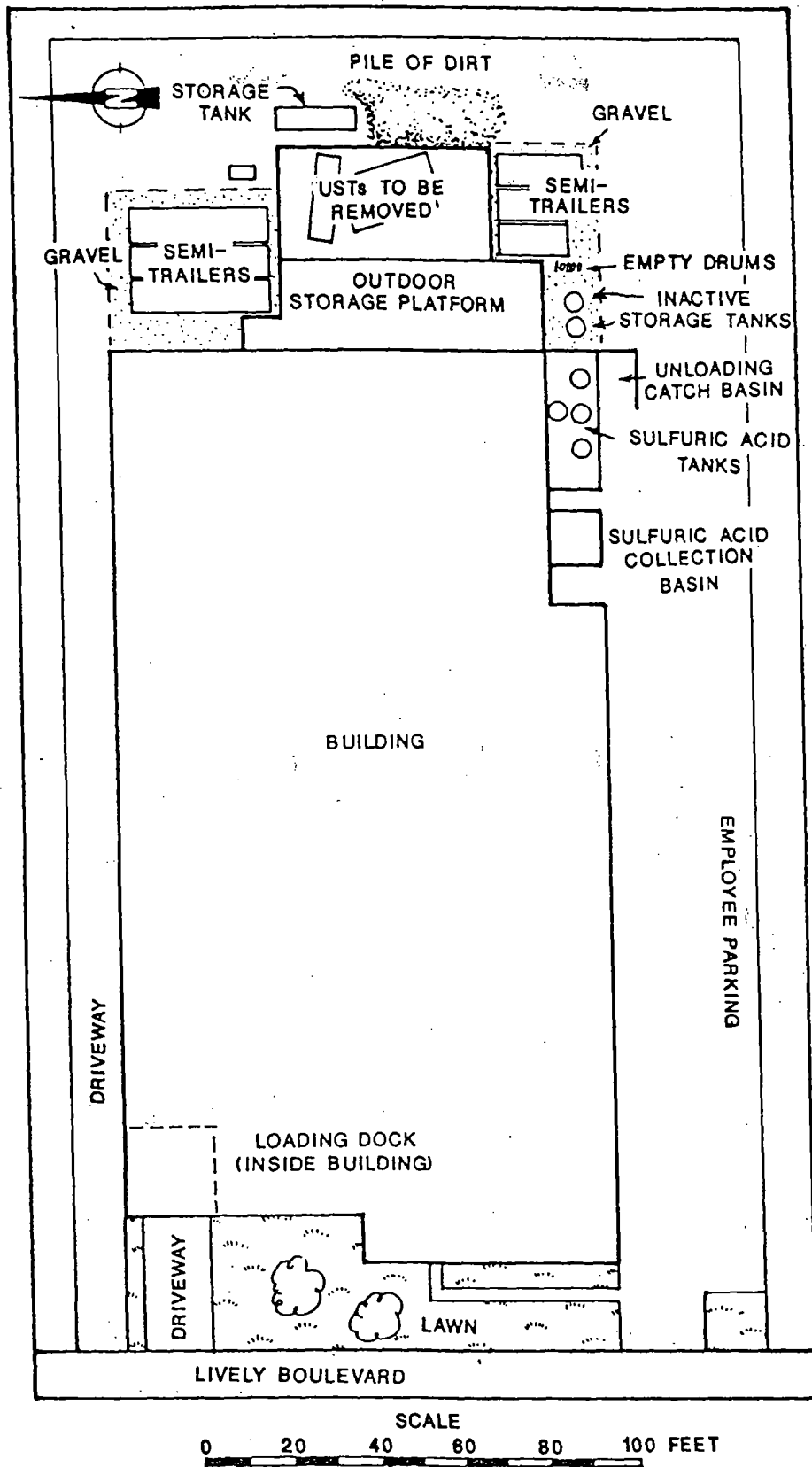


FIGURE 3-1 SITE FEATURES

collects small amounts (less than approximately 50 gallons) of liquids that are spilled when liquids are unloaded from tanker trucks and transferred to the sulfuric acid tanks.

The outdoor storage platform is attached to the east side of the building; it is covered with a shingled roof, but there are no outer walls. The platform is approximately 75 feet long, 20 feet wide, and 4 feet above the ground. Flammable raw materials are stored in 55-gallon drums and smaller containers on the platform. FIT was not able to determine the number of drums on the platform.

The UST containment structure is attached to the storage platform. The containment structure is approximately 60 feet long, 25 feet wide, and 4 feet high. Apparently, the tanks were placed at or near ground level inside the concrete-walled structure, the cavities between the tanks and the walls were filled with dirt, and the dirt and the tanks were covered with concrete. At the time of the SSI, FIT observed USTs still in the containment structure; however, at least two USTs had been partially removed from their former positions.

A mound of dirt and concrete construction debris was observed southeast and adjacent to the UST containment structure. The mound was covered by a blue tarp. The dirt and debris had been excavated from the UST containment structure.

Two inactive, aboveground storage tanks were located on the ground near the southwest corner of the storage platform. Approximately 35 empty 55-gallon drums were observed south of the southeast corner of the platform. The drums were stacked horizontally on pallets where they will remain until they are returned to Venus Labs' supplier(s) with the next shipment (Manolas and Manolas 1990).

Six semitrailers were parked on gravel areas east and west of the storage platform and the UST containment structure. The semitrailers are used for storing solid raw materials. Three of the semitrailers were parked south of the UST containment structure (Manolas and Manolas 1990). The aforementioned empty 55-gallon drums were positioned against the westernmost of these three semi-trailers. The other three semitrailers were parked north of the storage platform.

Another aboveground storage tank was observed on a steel rack east of the UST containment structure. The contents of the tank, which has a capacity of approximately 500 gallons, are not known.

FIT did not observe the unnamed tributary of the Des Plaines River previously sampled by IEPA inspectors because the bed of the tributary had been filled in during the development of property adjacent to the east side of the Venus site. Site representatives did not know the exact date when this occurred; however, file information indicates that the development occurred sometime between 1980 and 1984 (Benning 1980; Manolas and Manolas 1990).

FIT photographs from the SSI of the Venus site are provided in Appendix C.

### 3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D.

On November 14, 1990, FIT collected six soil samples, including a potential background soil sample, and one monitoring well sample. Portions of all on-site samples were offered to site representatives and the offer was accepted; however, because of a lack of sufficient water in the monitoring well, no monitoring well portion was available to give the site representatives.

Soil Sampling Procedures. Six grab soil samples were collected during the SSI of the Venus site. Soil sample S1 was collected at a depth of approximately 1 foot from the lawn located on the west side (front) of the building (see Figure 3-2 for on-site soil sampling locations). The sample was collected in an area where tan-colored grass was observed during the September 20, 1990, drive-by reconnaissance inspection.

Soil sample S2 was collected at a depth of approximately 1 foot from the southeast corner of the semitrailer parking area on the south side of the UST containment structure. Organic vapors were detected with the OVA at this sampling location.

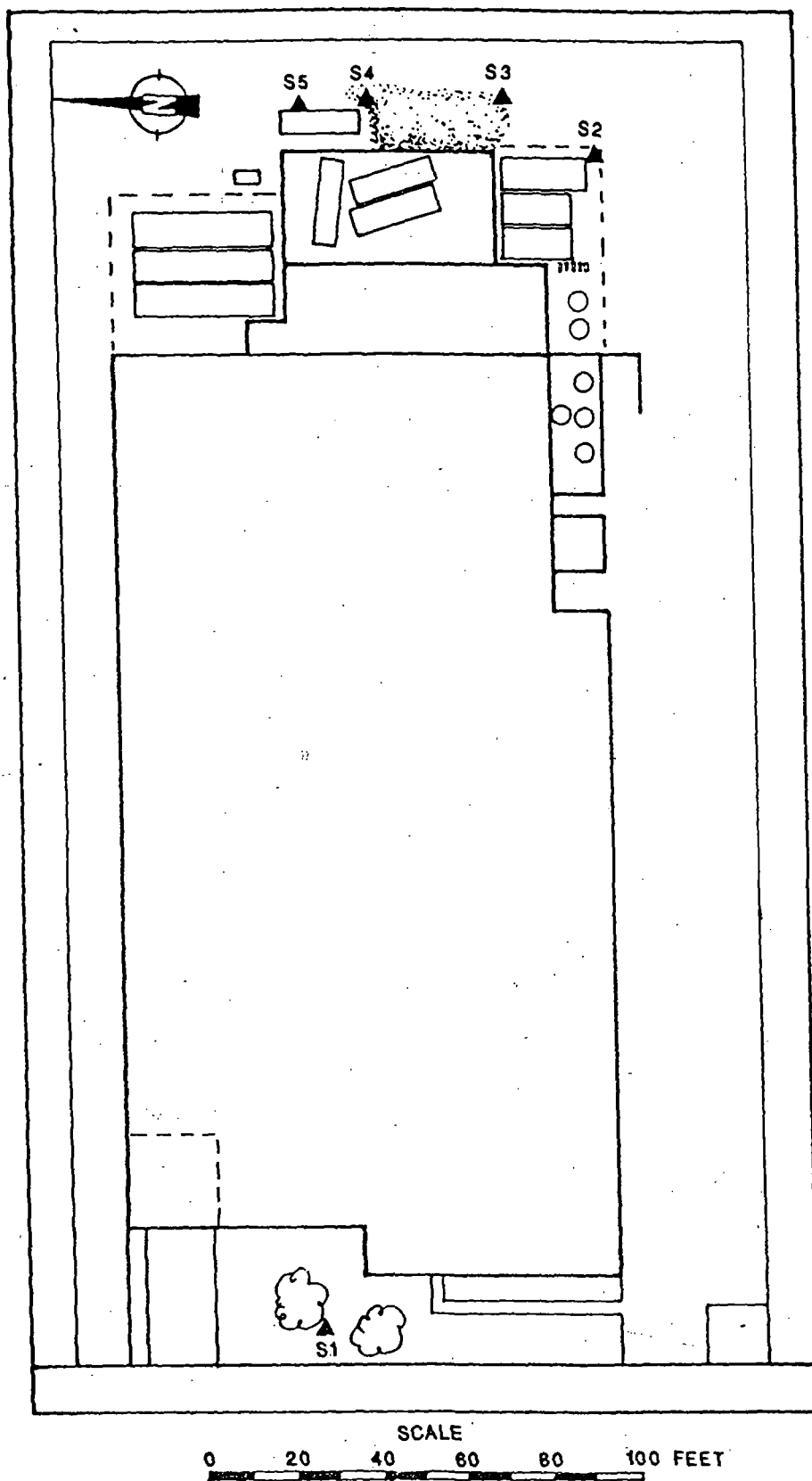


FIGURE 3-2 ON-SITE SOIL SAMPLING LOCATIONS

Soil samples S3 and S4 were collected from the pile of dirt located east of the UST containment structure. Sample S3 was collected from the south end of the pile of dirt; sample S4 from the north. The samples were collected at depths of 0 to 6 inches from the surface of the pile.

Soil sample S5 was collected under the storage tank that is east of the UST containment structure. The sample was collected at a depth of 0 to 4 inches.

Soil sample S6 was collected as a background soil sample from a location approximately 1/4 mile northwest of the site, 150 yards south of Thorndale Avenue, and 20 yards east of Central Avenue. This area was wooded and did not appear to be disturbed. The sample was collected at a depth of 0 to 6 inches (see Figure 3-3 for the off-site soil sampling location).

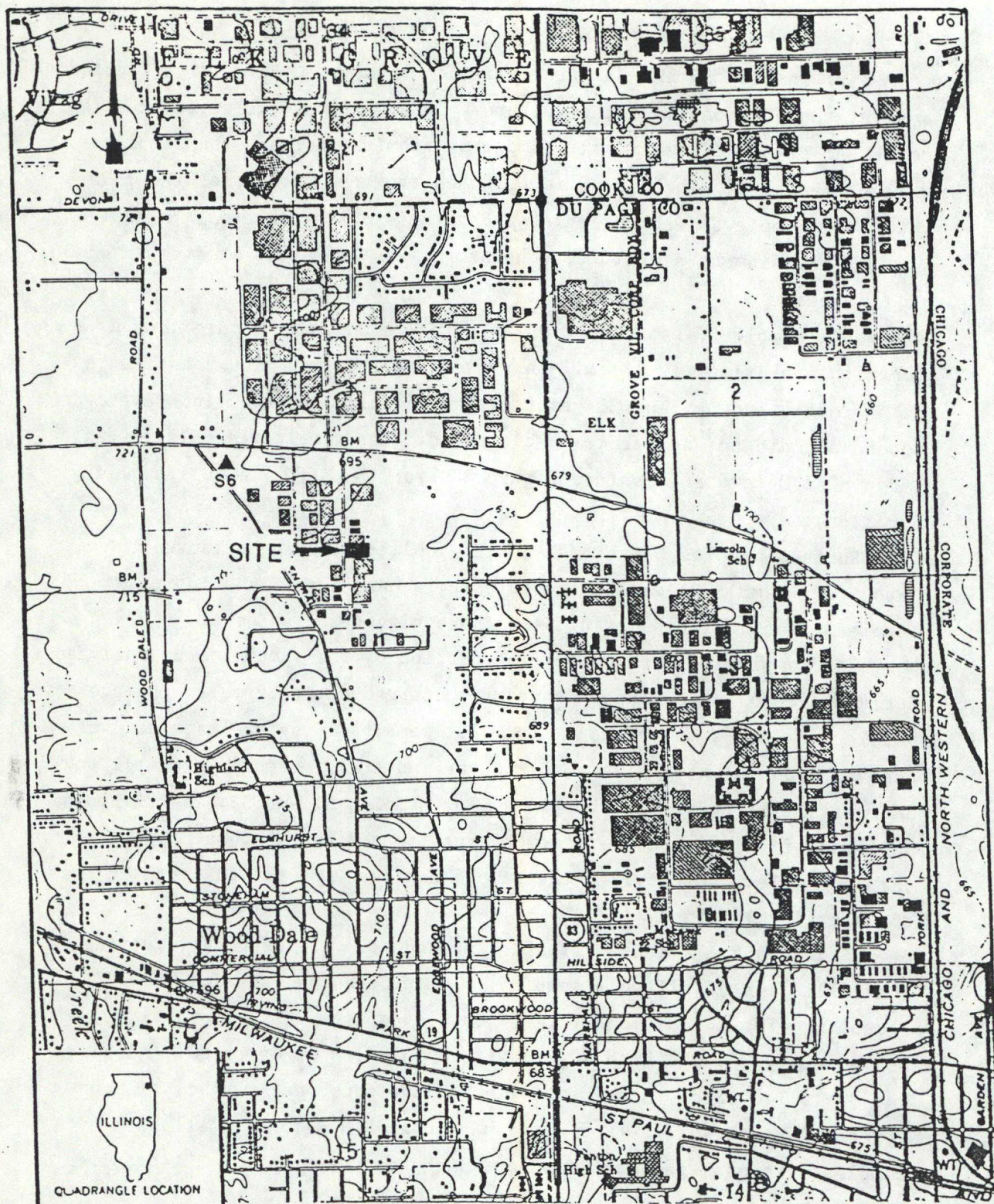
Surface samples S3 through S6 were collected using a trowel. Subsurface sample S1 was collected using a hand auger, and subsurface sample S2 was collected using a posthole digger and a shovel.

For samples S2 through S6, the portion of the sample to be analyzed for volatile organic compounds was transferred directly to the sample bottle from the sampling location. For sample S1, sample material was removed from the hole with a soil auger and transferred to a sample bowl before filling the sample bottles. For samples S1 and S2, the remaining portions of the samples were transferred to the bowl before filling the sample bottles. Otherwise, the sample bottles were filled directly from the sampling location.

Standard E & E decontamination procedures were adhered to during the collection of all soil samples. The procedures included the scrubbing of all equipment (e.g., trowels, spoons, bowls, shovel, posthole digger, and hand auger) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil samples were analyzed using the U.S. EPA Contract Laboratory Program (CLP).

Monitoring Well Sampling Procedures. One on-site monitoring well sample (MW1) was collected during the SSI of the Venus site. The sample



SOURCE: USGS, Elmhurst, IL Quadrangle, 7.5 Minute Series, 1963, Photorevised 1972 and 1980.



FIGURE 3-3 OFF-SITE SOIL SAMPLING LOCATION

was collected to determine whether TCL compounds and/or TAL analytes had migrated into groundwater in the vicinity of the site. The monitoring well is located in the gravel area east of the storage platform. The depth to water on the day of the SSI was 13.8 feet, and the well depth is 26.9 feet. During the venting of this well, the HNu detected organic vapors at the top of the well casing (see Figure 3-4 for the monitoring well sampling location).

In accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements, a duplicate monitoring well sample and a field blank sample were collected. On the day FIT sampled the monitoring well, there was not enough water in the well to fill all of the sample portions; therefore, the portion of the duplicate sample to be analyzed for semivolatile organic compounds and pesticides/polychlorinated biphenyls (PCBs) was not collected. The duplicate sample was collected at location MW1. The field blank sample was prepared from distilled water.

The monitoring well was purged of three to five volumes of standing water prior to the collection of the sample. The monitoring well sample was collected with a stainless steel bailer that had been scrubbed with a solution of detergent (Alconox) and distilled water, and triple-rinsed with distilled water prior to the collection of the sample (E & E 1987).

As directed by U.S. EPA, the monitoring well sample was analyzed using the U.S. EPA CLP.

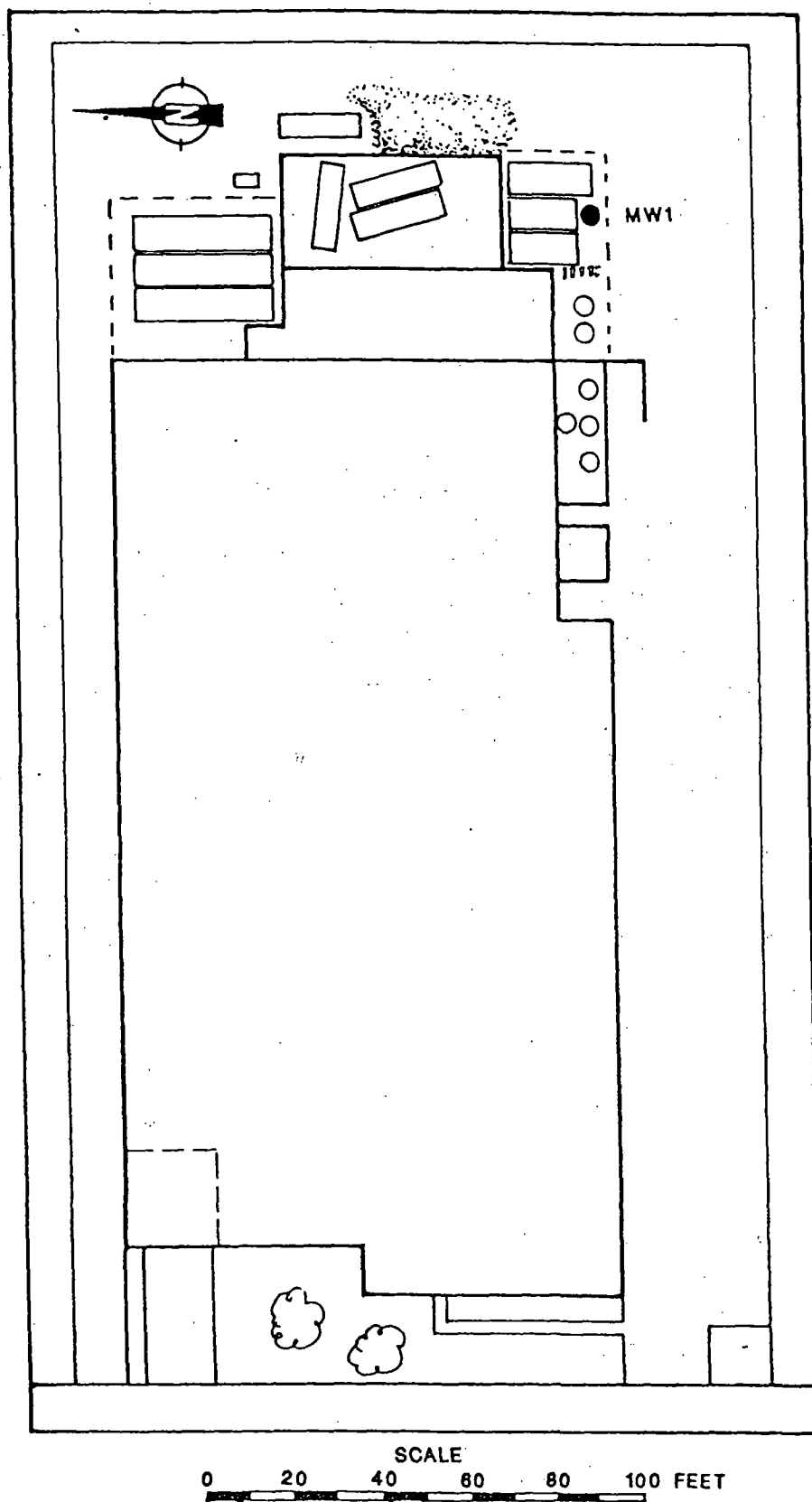


FIGURE 3-4 MONITORING WELL SAMPLING LOCATION

#### 4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of FIT-collected soil and monitoring well samples for TCL compounds and TAL analytes. All samples except the duplicate monitoring well sample were analyzed for volatile organics, semivolatile organics, pesticides/PCBs, metals, and cyanides. The duplicate monitoring well sample was analyzed for volatile organics, metals, and cyanide only. The semivolatile organic and pesticide/PCB portions were not collected because there was not enough water in the monitoring well on the day of sampling. Complete chemical analysis of FIT-collected soil and monitoring well samples are provided in Tables 4-1 and 4-2. In addition, significant tentatively identified compounds (TICs) detected in the analysis of FIT-collected samples are also provided in Table 4-1.

Quantitation/detection limits used in the analysis of FIT-collected samples are provided in Appendix D.

The analytical data for the chemical analysis of FIT-collected samples for this SSI have been reviewed under the direction of U.S. EPA for validity; the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for usability. Any additions, deletions, or changes resulting from review of the data have been incorporated in the chemical analysis results tables presented in this section.

Table 4-1  
RESULTS OF CHEMICAL ANALYSIS OF  
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information and Parameters	Sample Number					
	S1	S2	S3	S4	S5	S6
Date	11/14/90	11/14/90	11/14/90	11/14/90	11/14/90	11/14/90
Time	1110	1140	1200	1200	1240	1320
CLP Organic Traffic Report Number	EKW82	EKW83	EKW84	EKW85	EKW86	EKW87
CLP Inorganic Traffic Report Number	MEKD82	MEKD83	MEKD84	MEKD85	MEKD86	MEKD87
<u>Compound Detected</u> (values in $\mu\text{g/kg}$ )						
<u>Volatile Organics</u>						
methylene chloride✓	--	--	3J	--	--	--
acetone✓	--	--	--	4J	--	--
1,1,1-trichloroethane✓	--	--	14	7	--	--
trichloroethene✓	--	--	12	--	--	--
tetrachloroethene✓	--	--	23	31	--	--
toluene	--	--	3J	--	--	7
ethylbenzene✓	--	2,700J	--	--	--	--
xylenes (total)✓	--	16,000J	--	--	--	--
<u>Semivolatile Organics</u>						
1,3-dichlorobenzene	--	--	--	2,500	--	--
1,4-dichlorobenzene	--	--	--	2,600	--	--
1,2-dichlorobenzene	--	71,000	1,300	7,300	--	--
2,4-dichlorophenol	--	30,000J	470	--	79J	--
naphthalene	--	11,000J	59J	--	--	--
2-methylnaphthalene	76J	33,000J	61J	--	--	--
dimethylphthalate	--	--	--	--	79J	--
acenaphthene	--	--	60J	--	--	--
phenanthrene	81J	--	350	--	--	--
anthracene	--	--	110J	--	--	--
di-n-butylphthalate	--	200,000	30J	--	--	--
fluoranthene	--	--	460	--	--	150J

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number					
	S1	S2	S3	S4	S5	S6
✓pyrene✓	280J	--	340J	--	370J	79J
benzo[a]anthracene✓	--	--	170J	--	220J	68J
✓phrysene✓	--	--	190J	--	350J	76J
✓bis(2-ethylhexyl)phthalate✓	--	14,000J	2,700J	7,100	4,600J	68J
✓benzo[b]fluoranthene✓	--	--	170J	--	390	100J
✓benzo[k]fluoranthene✓	--	--	79J	--	210J	40J
✓benzo[a]pyrene	--	--	130J	--	260J	--
indeno[1,2,3-cd]pyrene	--	--	48J	--	88J	--
✓dibenzo[a,h]anthracene	--	--	15J	--	16J	--
benzo[g,h,i]perylene	--	--	46J	--	87J	--
<u>Pesticides/PCBs</u>						
Dieldrin	65	--	--	--	--	--
4,4'-DDE	130	--	--	--	--	--
4,4'-DDD	110	--	--	--	--	--
4,4'-DDT	74	--	--	--	--	--
<u>TICs†</u>						
benzene, 1-ethyl-2-methyl (611-14-3)	--	70,000J	--	--	--	--
benzene, 1,3,5-trimethyl (108-67-8)	--	50,000J	--	--	--	--
benzene, 1,2,3-trimethyl (526-73-8)	--	60,000J	--	--	--	--
benzene, 1-methyl-3-propyl (1074-43-7)	--	20,000J	--	--	--	--
benzene, 1-methyl-3-ethyl (620-14-4)	--	30,000J	--	--	--	--
decane (124-18-5)	--	40,000J	--	--	--	--
1-methylnaphthalene	--	30,000J	--	--	--	--

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number					
	S1	S2	S3	S4	S5	S6
1,3-dimethylnaphthalene✓	--	--	--	2,000J	--	--
1,7-dimethylnaphthalene✓ (575-37-1)	--	--	--	2,000J	--	--
<u>Analyte Detected</u> (values in mg/kg)						
aluminum	13,700	3,910	1,900	2,570	1,970	12,800
antimony✓	--	6.8B	--	--	--	--
arsenic	7.3	9.2+J	4.5	4.5	2B	6.5
barium	149	33.3B	17.6B	20.1B	83.6	107
beryllium	0.95B	0.6B	0.47B	0.56B	0.56B	0.87B
cadmium✓	--	1.1B	--	--	1.6J	--
calcium✓	8,300	128,000	122,000	141,000	154,000	6,870
chromium	23.7	31.2	5.1J	6.9	45.6	19.1
cobalt	13.4	4B	3.1B	2.7B	1.9B	13.2
copper✓	25.4	44	23.8J	13.2J	93.9	22.6J
iron	23,600	12,300	9,160	9,790	21,000	19,600
lead✓	75.5	11.9	5.9	5.7	28.1	21.4
magnesium✓	5,420	30,200	64,800	75,200	76,700	5,220
manganese	581J	188J	218J	420J	267J	778J
mercury✓	0.14	--	--	--	--	--
nickel	75.2	8.8B	6.7B	6.5B	6.3B	20.5
potassium	1,910J	2,190J	390B	698B	514B	1,360
selenium✓	0.67BWJ	--	--	--	--	--
sodium✓	71.2BJ	278B	196B	258B	528B	62.2BJ
thallium	0.77B	--	--	0.37B	0.3B	0.79B
vanadium	29.1	9.2B	9.8B	13.9	4.4B	28.6
zinc✓	95.3	91.5	24.7	26.8	167	54.6

-- Not detected.

+ TIC Chemical Abstracts Service (CAS) numbers, if available, are provided in parentheses.

Table 4-2  
RESULTS OF CHEMICAL ANALYSIS OF  
FIT-COLLECTED MONITORING WELL SAMPLES

Sample Collection Information and Parameters	Sample Number		
	MW1	Duplicate	Blank
Date	11/14/90	11/14/90	11/14/90
Time	1430	1430	1300
CLP Organic Traffic Report Number	EHZ96	EHZ98	EHZ99
CLP Inorganic Traffic Report Number	MEHN66	MEHN68	MEHN69
Temperature (°C)	59	59	58
Specific Conductivity (µmhos/cm)	1,647	1,647	11.78
pH	11.10	11.10	9.85
<u>Compound Detected</u>			
(values in µg/L)			
<u>Volatile Organics</u>			
chloroethane ✓	9J	9J	--
acetone ✓	--	15	--
carbon disulfide ✓	7	--	--
1,1-dichloroethane ✓	18	18	--
1,2-dichloroethene (total) ✓	3J	--	--
<u>Analyte Detected</u>			
(values in µg/L)			
aluminum	27.8B	24.5B	--
antimony	22.9B	--	--
arsenic	1.2B	1.2B	--
barium	99.3B	11.3B	1.1BJ
calcium	149,000	180,000	135BJ
chromium	--	--	3.7BJ
copper	29.4J	33.8J	6.3BJ
iron	35.1BJ	30.8BJ	--
magnesium	1,670B	1,840B	49.8B
manganese	7B	2.2B	--
nickel	69.6	94.2	--

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
+	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value may be biased.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

Table 4-2 (Cont.)

Sample Collection Information and Parameters	MWI	Sample Number	
		Duplicate	Blank
potassium	10,200	12,300	—
sodium	76,000	89,300	112BJ
vanadium	3.5B	3B	—
zinc	9.6BJ	6.4BJ	3.2B

— Not detected.

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

## 5. DISCUSSION OF MIGRATION PATHWAYS

### 5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the Venus site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

### 5.2 GROUNDWATER

The TCL compound 1,1-dichloroethane was detected in MW1 at 18 µg/L. The TAL analytes detected in MW1 include copper (33.8J µg/L) and nickel (94.2 µg/L) (see Table 4-2 for the definition and interpretation of the qualifier). Because there is no upgradient well sample, the TCL compound and TAL analytes may not be conclusively attributed to the site.

TCL compounds and TAL analytes were detected at concentrations above background levels in on-site soil samples. In sample S2, ethylbenzene was detected at 2,700J µg/kg, xylene was detected at 16,000J µg/kg, and 1,2-dichlorobenzene was detected at 71,000 µg/kg (see Table 4-1 for the definition and interpretation of the qualifier). In sample S4, 1,2-dichlorobenzene was detected at 7,300 µg/kg. TICs detected included alkylsubstituted benzene compounds. Mercury was detected in soil sample S1 at 0.14 mg/kg. Other detected TAL analytes included arsenic, chromium, and lead.

There is a known history of on-site use of several of the detected TCL compounds. Material Safety Data Sheets for raw materials that are used on-site and that were detected in on-site soil samples include

1,2-dichlorobenzene, xylene, ethyltoluenes, and trimethylbenzenes as constituents (Ashland Chemical Company 1986, 1986a; ICI Americas, Inc. 1982; Cargill, Inc. 1990; EMCO Chemical Distributors, Inc. 1988). Therefore, these TCL compounds are attributable to the Venus site.

There is a potential for the migration of TCL compounds and TAL analytes from the Venus site to groundwater, based on the following information.

- TCL compounds and TAL analytes were detected in on-site soil and monitoring well samples.
- A manufacturing facility that currently uses raw materials containing TCL compounds operates on-site.

The potential for TCL compounds and TAL analytes detected in on-site soil and monitoring well samples to migrate from the site is also based upon the following geological information. The geology of the area of the site consists of unconsolidated glacially derived deposits that overlie sedimentary bedrock. The unconsolidated deposits consist of clay, sand, and gravel. The sedimentary bedrock layers, in descending order, are Niagaran dolomite, Maquoketa Shale, and Glenwood-St. Peter, Ironston-Galesville, and Mt. Simon sandstones (Willman 1971).

Logs of wells in the area of the site indicate that most private wells draw from the Niagaran dolomite (see Appendix E for well logs of the area of the site). The unconsolidated deposits and the Niagaran dolomite are considered to be hydraulically connected because there is no confining layer that separates them (Willman 1971). Consequently, they are considered to act as a single aquifer and to be the aquifer of concern (AOC). The depth to the AOC, as evaluated from static water levels recorded in well logs, is approximately 25 feet. The sandstone formations are used as aquifers, but the Maquoketa Shale layer is believed to act as a confining layer between the Niagaran dolomite and the sandstone formations (Willman 1971). As a result, the sandstone aquifers are not considered to be parts of the AOC.

Drinking water for the local population is obtained from three sources: surface water intakes, groundwater from municipal wells, and groundwater from private wells. Residents within a 3-mile radius of the site in Des Plaines, Elk Grove Village, and Chicago obtain their drinking water from surface water intakes in Lake Michigan via their respective water departments (Fox 1990; Cox 1985; Walter 1990). Elk Grove Village maintains eight wells for emergency use only (Walter 1990). Six of the eight wells draw from below the Maquoketa Shale confining unit. The two wells in the AOC and four of the six other wells are within a 3-mile radius of the site (Woller, Sanderson, and Sargent 1986). However, because these wells are for emergency use only, they are not considered to be affected.

The municipal water systems of Bensenville, Itasca, and Wood Dale are cross-connected. The city of Bensenville's four wells draw from below the Maquoketa Shale confining unit. The cities of Itasca and Wood Dale each operate four wells that draw from the AOC. Wood Dale operates two additional wells. One of the wells is approximately 1/4 mile south of the site, draws water from below the Maquoketa Shale confining unit, and serves only industrial customers. Water from the wells within each municipality's system is blended before distribution (Woller, Sanderson, and Sargent 1986; Grossi 1990; Kindermann 1990).

The Itasca and Wood Dale wells in the AOC draw water from depths of 81 to 260 feet and range in depth from 107 to 260 feet. The total population served by these wells, plus the population in Bensenville, is approximately 34,504 persons (Woller, Sanderson, and Sargent 1986; U.S. Bureau of the Census 1982a).

Well logs of the area of the site indicate that private wells draw from the AOC. The wells vary in total depth from 127 to 230 feet. The nearest well is approximately 3/8 miles south of the site. Approximately 829 persons obtain drinking water from private wells within a 3-mile radius of the site. This estimate was calculated by counting 284 houses on U.S. Geological Survey (USGS) maps and multiplying this number by 2.92, the persons-per-household average for DuPage County (USGS 1961, 1962, 1963, 1963a; U.S. Bureau of the Census 1982). Areas not served by public water systems were identified by local water officials (Grossi 1990; Weinstock 1990; Kindermann 1990).

A potential does not exist for TCL compounds and TAL analytes to migrate from the site via windblown particles. Under normal operating conditions, no soil is exposed to the wind. At the time of the SSI, the dirt that was removed from the UST containment structure was completely covered with a blue tarpaulin to prevent wind erosion.

### 5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, no documentation exists of an incident of fire or explosion at the site. However, Lt. Mitchell Crocetti of the Wood Dale Fire Department reported one incident that occurred in approximately 1986. Heavy smoke from the facility's injection molding machine forced the evacuation of the building, but any fire was extinguished before firefighters arrived at the site. Damage from the fire was apparently limited to the injection molding machine. Crocetti did not believe that the Venus site is a fire hazard, and he reported that he was not aware of any hazardous waste incidents at the site (Crocetti 1991).

According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI.

### 5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representatives, no incidents of direct contact with TCL compounds or TAL analytes at the Venus site have been documented.

However, a potential for direct contact with TCL compounds or TAL analytes does exist and is based upon the following information.

- The site is not fenced on any side.
- TCL compounds and TAL analytes were detected in on-site soil samples.
- Approximately 40 employees work at the site.

A total of approximately 35,333 persons obtain their drinking water from sources that could be affected by the migration of TCL compounds and TAL analytes: 18,380 persons who obtain their water from municipal wells in the AOC (11,251 in Wood Dale; 7,129 in Itasca); 829 persons (in Addison Township) who obtain their water from private wells in the AOC; and 16,124 persons in Bensenville whose municipal water system is cross-connected with a water system that obtains water from the AOC. The possibility for residents in Elmhurst, Elk Grove Village, and other municipalities to obtain their drinking water from wells that draw from the AOC does exist because the water systems of Itasca and Wood Dale are cross-connected with Bensenville's water system which, in turn, is cross-connected with the water systems of other municipalities. However, the extent of water usage from wells in the AOC that are in the cross-connected systems is not known, therefore no additional target population has been estimated (Woller, Sanderson, and Sargent 1986; U.S. Bureau of the Census 1982a).

### 5.3 SURFACE WATER

In accordance with the U.S. EPA-approved work plan, no surface water samples were collected during the SSI of the Venus site. The nearest surface water body is approximately 1 1/10 mile west of the site. However, topographic and man-made features would prevent runoff to any surface water body. The unnamed tributary of the Des Plaines River was removed entirely when adjacent properties were developed in the 1980s.

### 5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the Venus site. During the reconnaissance inspection, FIT site-entry instruments (HNu, OVA, hydrogen cyanide monitor, radiation monitor, and explosimeter) did not detect levels that deviated from background concentrations at the site. However, during the sampling of monitoring well MW1, the HNu did detect organic vapors at the top of the well casing; although none were detected in the breathing zone. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the site is 4,782 persons. This population was calculated by counting houses within a 1-mile radius of the site on a USGS topographic map (USGS 1963a) and multiplying this number by the persons-per-household value of 2.92 for DuPage County (U.S. Bureau of the Census 1982). This population was added to the approximately 3,938 persons in Wood Dale and 578 persons in Elk Grove Village, who live within a 1-mile radius of the site.

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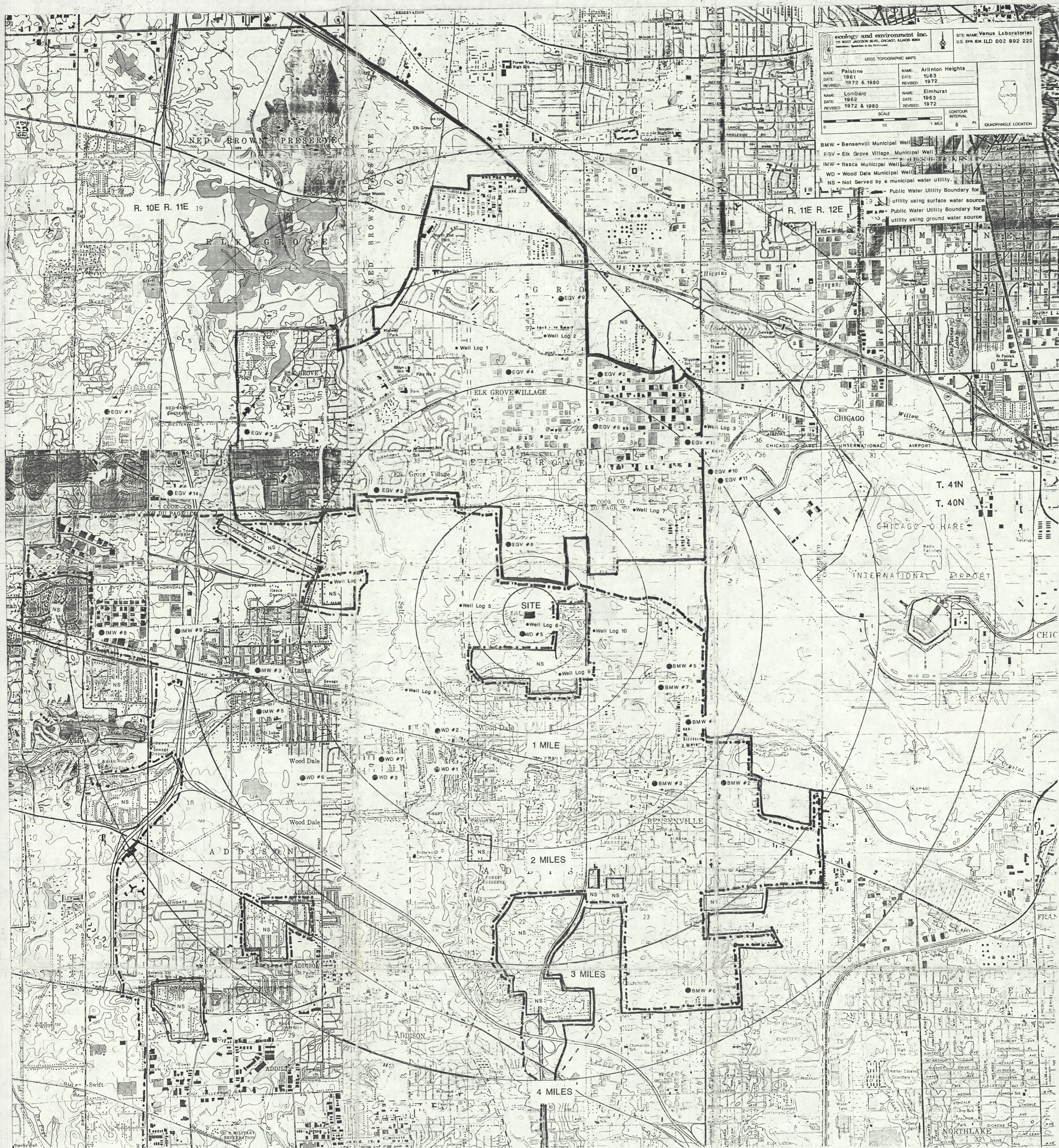
6889:9

APPENDIX A

SITE 4-MILE RADIUS MAP

APPENDIX B

U.S. EPA FORM 2070-13



ecology and environment inc.  
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604  
Telephone: 312-587-1100

USGS TOPOGRAPHIC MAPS

NAME	DATE	NAME	DATE
Palatine	1961	Arlington Heights	1963
1972 & 1980		1972	
Lombard	1962	Elmhurst	1963
1972 & 1980		1972	

SCALE: 1 MILE  
CONTOUR INTERVAL: 5 FT.

QUADRANGLE LOCATION

BMW - Bensenville Municipal Well  
EGV - Elk Grove Village Municipal Well  
IMW - Itasca Municipal Well  
WD - Wood Dale Municipal Well  
NS - Not Served by a municipal water utility

Public Water Utility Boundary for  
utility using surface water source  
Public Water Utility Boundary for  
utility using ground water source



# Site Inspection Report

APPENDIX B

U.S. EPA FORM 2070-13



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE ILD 02 SITE NUMBER 002 992 220

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Venus Lab., Inc.  
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 855 Lively Blvd.  
03 CITY Wood Dale  
04 STATE IL 05 ZIP CODE 60191 06 COUNTY DuPage  
07 COUNTY CODE 043 08 CONG. DIST. 06  
09 COORDINATES  
LATITUDE 41° 52' 45.0" LONGITUDE -87° 52' 32.0"  
10 TYPE OF OWNERSHIP (Check one)  
☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL  
☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 11/14/90  
MONTH DAY YEAR  
02 SITE STATUS  
☒ ACTIVE  
☐ INACTIVE  
03 YEARS OF OPERATION 1975 present  
BEGINNING YEAR ENDING YEAR  
04 AGENCY PERFORMING INSPECTION (Check all that apply)  
☐ A. EPA ☒ B. EPA CONTRACTOR Ecology & Environment (Name of firm)  
☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR (Name of firm)  
☐ E. STATE ☐ F. STATE CONTRACTOR (Name of firm)  
☐ G. OTHER (Specify)

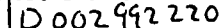
05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Charles Hall	Environmental Engineer	E&E/FIT	(312) 663-9415
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Catherine J. Kouris	Environmental Scientist	E&E/FIT	(312) 663-9415
Jennifer L. Dubay	Natural Resources Manager	E&E/FIT	(312) 663-9415
Gregory Youngstrom	Biologist	E&E/FIT	(312) 663-9415
Ronald Bugg	Industrial Hygienist/ Health Physicist	E&E/FIT	(312) 663-9415
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
John Manolas	V.P. Research & Development	Venus Labs, Inc. 855 Lively Blvd. Wood Dale, IL	(708) 595-1900
Ellie Manolas	Office Manager	Venus Labs, Inc. 855 Lively Blvd. Wood Dale, IL	(708) 595-1900
Mike Marresse	Plant Manager	Venus Labs, Inc. 855 Lively Blvd. Wood Dale, IL	(708) 595-1900
Irving Dromsky	Consultant	Allied Labs 716 N. Iowa Av. Villa Park, IL	(708) 279-0390
			( )
			( )

17 ACCESS GAINED BY (Check one)  
☐ PERMISSION  
☒ WARRANT  
18 TIME OF INSPECTION 9:00 a.m. - 4:00 p.m.  
19 WEATHER CONDITIONS Sunny, clear, calm ~50-60°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.		
Tom Crause	Illinois Environmental Protection Agency	(217) 782-9848		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Charles Hall	U.S. EPA	E&E/FIT	312/663-9415	3/27/91 MONTH DAY YEAR





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: ~35333 04 NARRATIVE DESCRIPTION

See Section 5.2 of the Narrative for Details.

01 ☐ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

See Section 5.3 of the Narrative for Details.

01 ☐ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

See Section 5.4 of the Narrative for Details.

01 ☐ D FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

See Section 5.5 of the Narrative for Details.

01 ☒ E DIRECT CONTACT 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 4782 04 NARRATIVE DESCRIPTION

See Section 5.6 of the Narrative for Details.

01 ☒ F CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 14 Nov 90) ☐ POTENTIAL ☐ ALLEGED  
03 AREA POTENTIALLY AFFECTED: ~1 04 NARRATIVE DESCRIPTION  
(Acres)

See Section 5.2 of the Narrative for Details.

01 ☒ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: ~35333 04 NARRATIVE DESCRIPTION

See Section 5.2 of the Narrative for Details.

01 ☒ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: ~40 04 NARRATIVE DESCRIPTION

See Section 2.3 of the Narrative for Details.

01 ☒ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: ~35333 04 NARRATIVE DESCRIPTION

See Section 5.2 of the Narrative for Details.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION  
01 STATE 02 SITE NUMBER  
IL D002992220

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED

Discolored grass was observed during an off-site reconnaissance inspection in July 1990. No discolored vegetation was observed during the on-site inspection in November 1990. However, a potential for damage to flora does exist.

01 ☒ K DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED

No damage to fauna was observed during the site inspection. The potential for damage to fauna is considered to be low because the site is in a developing industrial park.

01 ☐ L CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

Contamination of the food chain is unlikely because no land within a 4-mile radius of the site is used for agriculture.

01 ☒ M UNSTABLE CONTAINMENT OF WASTES  
(Spills, Runoff, Standing liquids, Leaking drums)

02 ☒ OBSERVED (DATE: 19 Nov 90) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: ~35333 04 NARRATIVE DESCRIPTION

See Sections 2.3 and 5.2 of the Narrative for Details

01 ☐ N DAMAGE TO OFF-SITE PROPERTY  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

No damage to off-site property was observed during the site inspection.

01 ☒ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: July 1978) ☐ POTENTIAL ☐ ALLEGED

In July 1978, the Wood Dale City Manager reported to IEPA damage that was believed to have been caused by chemical discharges at Venus Labs. Part of the city's sewer system was damaged. See Section 2.3 of the Narrative for Details.

01 ☒ P ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☒ ALLEGED

IEPA inspectors observed evidence of spilled and leaked chemicals at the site during 26 site inspections between July 1980 and April 1984. See Section 2.3 of the Narrative for Details.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None noted.

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~35333

IV. COMMENTS

None.

V. SOURCES OF INFORMATION (Cite specific references e.g., State files, sample analysis, records)

E&E/FIT Site Inspection November 1990.

E&E/FIT Region II Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D002992220

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE	No permits from U.S. EPA or IEPA.			

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE  One
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND	Unknown	55-gallon	<input type="checkbox"/> C. CHEMICAL/PHYSICAL	06 AREA OF SITE  ~ 1 (acres)
<input checked="" type="checkbox"/> D. TANK, ABOVE GROUND	1	500gallon	<input type="checkbox"/> D. BIOLOGICAL	
<input checked="" type="checkbox"/> E. TANK, BELOW GROUND	8	4000	<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input checked="" type="checkbox"/> H. OTHER none known (Specify)	
<input checked="" type="checkbox"/> I. OTHER Tank, aboveground (Specify)	3	1200 gallon		

07 COMMENTS

At the time of the preparation of the SSIR and this 2070-13, the site owners were taking action to remove the 8 USTs from the site. See Section 2.3 of the Narrative for more information.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)  
☒ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

There is no known liner under the site. Empty 55-gallon drums are returned to Venus Labs' supplier(s). See Sections 2.3 and 3.3 for more details.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO  
02 COMMENTS

There are no fences at the site to prevent access.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

E&E/FIT Site Inspection, November 1990.  
E&E/FIT Region V Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY  
(Check as applicable)

SURFACE WELL  
COMMUNITY A. ☐ B. ☒  
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED MONITORED  
A. ☐ B. ☐ C. ☒  
D. ☐ E. ☐ F. ☐ Unknown

03 DISTANCE TO SITE

A. ~5/8 (mi)  
B. ~3/8 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING  
(Other sources available)  
COMMERCIAL INDUSTRIAL IRRIGATION  
(No other water sources available)  
☐ C. COMMERCIAL INDUSTRIAL IRRIGATION  
(Limited other sources available)  
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER ~35333

03 DISTANCE TO NEAREST DRINKING WATER WELL ~3/8 (mi)

04 DEPTH TO GROUNDWATER

~25 (ft)

05 DIRECTION OF GROUNDWATER FLOW

Unknown

06 DEPTH TO AQUIFER  
OF CONCERN

~25 (ft)

07 POTENTIAL YIELD  
OF AQUIFER

Unknown (gpd)

08 SOLE SOURCE AQUIFER

☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

See Section 5.2 of the Narrative for details.

10 RECHARGE AREA

☒ YES  
☐ NO

COMMENTS

Primary recharge  
through precipitation,  
infiltration

11 DISCHARGE AREA

☐ YES  
☒ NO

COMMENTS

No likely discharge points  
within 1 mile of the site.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION  
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY  
IMPORTANT RESOURCES ☐ C. COMMERCIAL INDUSTRIAL ☒ D. NOT CURRENTLY USED

02 AFFECTED POTENTIALLY AFFECTED BODIES OF WATER

NAME

AFFECTED

DISTANCE TO SITE

No surface water migration routes were observed.

n/a

(mi)

(mi)

(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE

A. ~4782  
NO OF PERSONS

TWO (2) MILES OF SITE

B. ~35611  
NO OF PERSONS

THREE (3) MILES OF SITE

C. ~62829  
NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION

on-site (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

~12196 homes

04 DISTANCE TO NEAREST OFF-SITE BUILDING

~10 ft. (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural village, densely populated urban area)

The site is located in an industrial park that is approximately  
3 miles west of the western border of O'Hare International  
Airport.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A.  $10^{-6} - 10^{-8}$  cm/sec ☒ B.  $10^{-4} - 10^{-6}$  cm/sec ☐ C.  $10^{-4} - 10^{-3}$  cm/sec ☐ D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than  $10^{-6}$  cm/sec) ☒ B. RELATIVELY IMPERMEABLE ( $10^{-6} - 10^{-8}$  cm/sec) ☐ C. RELATIVELY PERMEABLE ( $10^{-2} - 10^{-4}$  cm/sec) ☐ D. VERY PERMEABLE (Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

~62-170 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

~+6 (in)

07 ONE YEAR 24 HOUR RAINFALL

~+2.4 (in)

08 SLOPE  
SITE SLOPE

<3%

DIRECTION OF SITE SLOPE

n/a

TERRAIN AVERAGE SLOPE

<3%

09 FLOOD POTENTIAL

SITE IS IN n/a YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

n/a

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

n/a (mi)

OTHER

B. ~1/2 (mi)

12 DISTANCE TO CRITICAL HABITAT (for endangered species)

>1 (mi)

ENDANGERED SPECIES

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

A. 10 ft (ft)

B. ~3/8 (mi)

C. n/a (mi)

D. >4 (mi)

14. DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Refer to 4-mile radius map - see Appendix A.

VII. SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)

E&E/FIT Site Inspection November 1990. E&E/FIT Region V Files.  
U.S. Climatic Atlas 1979.  
U.S.G.S. Topographic Maps; Arlington Heights, Elmhurst, Lombard,  
& Palatine



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	1	TCL: Wadsworth Alert Labs Canton, Ohio TAL: Columbia Analytical Serv. Kelso, WA	On File
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	6	TCL: Wadsworth Alert Labs Canton, Ohio TAL: Columbia Analytical Serv. Kelso, WA	On File
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Radiation	
Mini-Alert	No measurements above background
Explosimeter	No measurements above background
H <sub>2</sub> CN-Monitor	No measurements above background
H <sub>2</sub> N <sub>2</sub> OVA	Measurements of 5-7 ppm at 1 sample location. No other above bkgd.
Oxygen meter	No deviations from background concentrations

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology & Environment Chicago, IL <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology & Environment, Inc. Chicago, Illinois

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

pH, temperature, conductivity of MW sample (See Table 4-2 for details).  
Water level (See Table 3-1 in SSIR Narrative for details).  
Well depth (See Table 3-1 in SSIR Narrative for details).

VI. SOURCES OF INFORMATION (See specific references, e.g., site files, sample analysis, reports)

EBE/FIT Site Inspection 1990.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D002992220

II. CURRENT OWNER(S)

PARENT COMPANY (if applicable)

01 NAME Venus Laboratories, Inc.			02 D+B NUMBER unknown			08 NAME none			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 855 Lively Blvd.			04 SIC CODE unknown			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY Wood Dale			06 STATE IL			07 ZIP CODE 60191			12 CITY			13 STATE			14 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			08 NAME n/a			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			08 NAME n/a			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			08 NAME n/a			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			08 NAME n/a			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		

III. PREVIOUS OWNER(S) (List most recent first)

IV. REALTY OWNER(S) (if applicable, list most recent first)

01 NAME unknown			02 D+B NUMBER			01 NAME none			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY			06 STATE			07 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			01 NAME n/a			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY			06 STATE			07 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			01 NAME n/a			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY			06 STATE			07 ZIP CODE		

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

E&E / FIT Site Inspection November 1990.  
E&E / FIT Region V Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (if applicable)

01 NAME Venus Laboratories, Inc.		02 D+B NUMBER unknown		10 NAME none		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 855 Lively Blvd.		04 SIC CODE unknown		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY Wood Dale		06 STATE IL	07 ZIP CODE 60191	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 1975+present		09 NAME OF OWNER Venus Laboratories					

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)

01 NAME Unknown		02 D+B NUMBER		10 NAME none		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME n/a		02 D+B NUMBER		10 NAME n/a		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME n/a		02 D+B NUMBER		10 NAME n/a		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis, reports)

E&E/FIT Site Inspection November 1990.  
E&E/FIT Region V Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. ON-SITE GENERATOR

01 NAME Venus Laboratories Inc.	02 D+B NUMBER unknown
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 855 Lively Blvd.	04 SIC CODE unknown
05 CITY Wood Dale	06 STATE 07 ZIP CODE IL 60191

III. OFF-SITE GENERATOR(S)

01 NAME none known	02 D+B NUMBER	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME n/a	02 D+B NUMBER	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME none known	02 D+B NUMBER	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME n/a	02 D+B NUMBER	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

E&E/FIT Site Inspection November 1990  
E&E/FIT Region IV Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ S. CAPPING/COVERING  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

W/a

01 ☐ T. BULK TANKAGE REPAIRED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ U. GROUT CURTAIN CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ V. BOTTOM SEALED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ W. GAS CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ X. FIRE CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ Y. LEACHATE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ Z. AREA EVACUATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ 1. ACCESS TO SITE RESTRICTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ 2. POPULATION RELOCATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☒ 3. OTHER REMEDIAL ACTIVITIES  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

Specific response activities are not known. A 1985 consent decree between Venus Labs and the State of Illinois required Venus Labs to address several waste and raw material storage and disposal practices at the site. It is reasonable to believe that spilled material and/or contaminated soil was removed and that waste was repackaged and disposed of elsewhere. However, documentation of these activities is not known to FIT.

III SOURCES OF INFORMATION (See specific references, e.g., State files, bottom analysis reports)

E&E / FIT Site Inspection November 1990.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. PAST RESPONSE ACTIVITIES

01 ☐ A WATER SUPPLY CLOSED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ B TEMPORARY WATER SUPPLY PROVIDED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ C PERMANENT WATER SUPPLY PROVIDED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ D SPILLED MATERIAL REMOVED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

none known

01 ☐ E CONTAMINATED SOIL REMOVED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

have known

01 ☐ F WASTE REPACKAGED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

none known

01 ☐ G WASTE DISPOSED ELSEWHERE  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

none known

01 ☐ H ON SITE BURIAL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ I IN SITU CHEMICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ J IN SITU BIOLOGICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ K IN SITU PHYSICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ L ENCAPSULATION  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ M EMERGENCY WASTE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ N CUTOFF WALLS  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ O EMERGENCY DIKING SURFACE WATER DIVERSION  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ P CUTOFF TRENCHES/SUMP  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ Q SUBSURFACE CUTOFF WALL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

A 1985 consent decree between Venus Labs and the State of Illinois required that Venus Labs prevent spillage and leakage of chemicals from the site. Ten actions were mandated, and a \$4000 fine was paid.

In 1985, Venus Labs plead guilty to four counts of releasing chemicals into an unnamed tributary to the Des Plaines River without a National Pollutant Discharge Elimination System permit. The unnamed tributary was displaced during the development of adjacent property.

See Section 2.3 of the Narrative for further details.

III. SOURCES OF INFORMATION (See specific references, e.g., state test sample analysis reports)

E&E/FIT Region V Files  
E&E/FIT site Inspection November 1990.

was collected to determine whether TCL compounds and/or TAL analytes had migrated into groundwater in the vicinity of the site. The monitoring well is located in the gravel area east of the storage platform. The depth to water on the day of the SSI was 13.8 feet, and the well depth is 26.9 feet. During the venting of this well, the HNu detected organic vapors at the top of the well casing (see Figure 3-4 for the monitoring well sampling location).

In accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements, a duplicate monitoring well sample and a field blank sample were collected. On the day FIT sampled the monitoring well, there was not enough water in the well to fill all of the sample portions; therefore, the portion of the duplicate sample to be analyzed for semivolatile organic compounds and pesticides/polychlorinated biphenyls (PCBs) was not collected. The duplicate sample was collected at location MW1. The field blank sample was prepared from distilled water.

The monitoring well was purged of three to five volumes of standing water prior to the collection of the sample. The monitoring well sample was collected with a stainless steel bailer that had been scrubbed with a solution of detergent (Alconox) and distilled water, and triple-rinsed with distilled water prior to the collection of the sample (E & E 1987).

As directed by U.S. EPA, the monitoring well sample was analyzed using the U.S. EPA CLP.

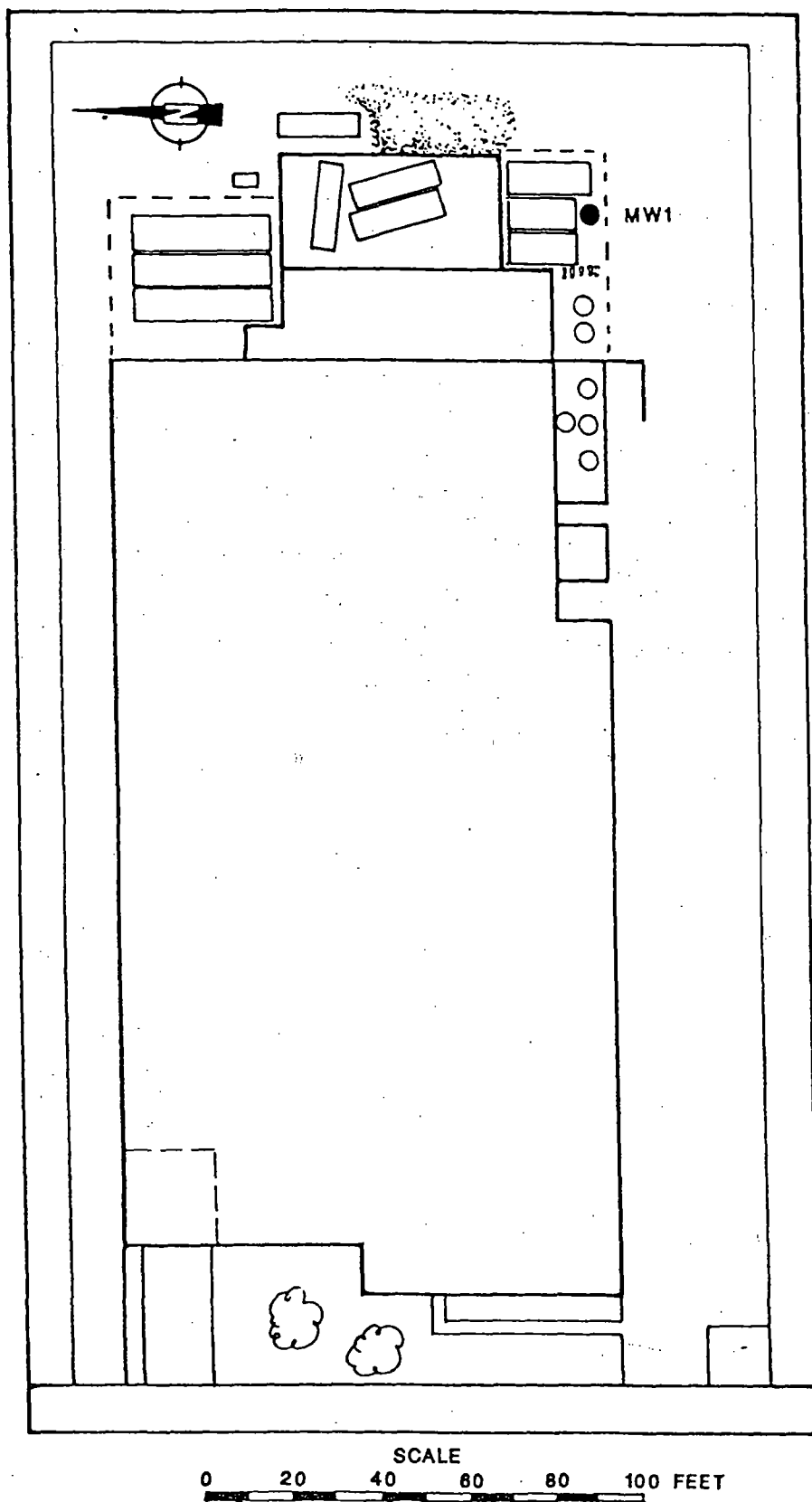


FIGURE 3-4 MONITORING WELL SAMPLING LOCATION

#### 4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of FIT-collected soil and monitoring well samples for TCL compounds and TAL analytes. All samples except the duplicate monitoring well sample were analyzed for volatile organics, semivolatile organics, pesticides/PCBs, metals, and cyanides. The duplicate monitoring well sample was analyzed for volatile organics, metals, and cyanide only. The semivolatile organic and pesticide/PCB portions were not collected because there was not enough water in the monitoring well on the day of sampling. Complete chemical analysis of FIT-collected soil and monitoring well samples are provided in Tables 4-1 and 4-2. In addition, significant tentatively identified compounds (TICs) detected in the analysis of FIT-collected samples are also provided in Table 4-1.

Quantitation/detection limits used in the analysis of FIT-collected samples are provided in Appendix D.

The analytical data for the chemical analysis of FIT-collected samples for this SSI have been reviewed under the direction of U.S. EPA for validity; the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for usability. Any additions, deletions, or changes resulting from review of the data have been incorporated in the chemical analysis results tables presented in this section.

Table 4-1  
RESULTS OF CHEMICAL ANALYSIS OF  
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information and Parameters	Sample Number					
	S1	S2	S3	S4	S5	S6
Date	11/14/90	11/14/90	11/14/90	11/14/90	11/14/90	11/14/90
Time	1110	1140	1200	1200	1240	1320
CLP Organic Traffic Report Number	EKW82	EKW83	EKW84	EKW85	EKW86	EKW87
CLP Inorganic Traffic Report Number	MEKD82	MEKD83	MEKD84	MEKD85	MEKD86	MEKD87
<u>Compound Detected</u> (values in $\mu\text{g/kg}$ )						
<u>Volatile Organics</u>						
methylene chloride✓	--	--	3J	--	--	--
acetone✓	--	--	--	4J	--	--
1,1,1-trichloroethane✓	--	--	14	7	--	--
trichloroethene✓	--	--	12	--	--	--
tetrachloroethene✓	--	--	23	31	--	--
toluene	--	--	3J	--	--	7
ethylbenzene✓	--	2,700J	--	--	--	--
xylenes (total)✓	--	16,000J	--	--	--	--
<u>Semivolatile Organics</u>						
1,3-dichlorobenzene	--	--	--	2,500	--	--
1,4-dichlorobenzene	--	--	--	2,600	--	--
1,2-dichlorobenzene	--	71,000	1,300	7,300	--	--
2,4-dichlorophenol	--	30,000J	470	--	79J	--
naphthalene	--	11,000J	59J	--	--	--
2-methylnaphthalene	76J	33,000J	61J	--	--	--
dimethylphthalate	--	--	--	--	79J	--
acenaphthene	--	--	60J	--	--	--
phenanthrene	81J	--	350	--	--	--
anthracene	--	--	110J	--	--	--
di-n-butylphthalate	--	200,000	30J	--	--	--
fluoranthene	--	--	460	--	--	150J

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number					
	S1	S2	S3	S4	S5	S6
✓pyrene✓	280J	--	340J	--	370J	79J
benzo[a]anthracene✓	--	--	170J	--	220J	68J
✓chrysene✓	--	--	190J	--	350J	76J
✓bis(2-ethylhexyl)phthalate✓	--	14,000J	2,700J	7,100	4,600J	68J
✓benzo[b]fluoranthene✓	--	--	170J	--	390	100J
✓benzo[k]fluoranthene✓	--	--	79J	--	210J	40J
✓benzo[a]pyrene	--	--	130J	--	260J	--
indeno[1,2,3-cd]pyrene	--	--	48J	--	88J	--
✓dibenzo[a,h]anthracene	--	--	15J	--	16J	--
benzo[g,h,i]perylene	--	--	46J	--	87J	--
<u>Pesticides/PCBs</u>						
Diieldrin	65	--	--	--	--	--
4,4'-DDE	130	--	--	--	--	--
4,4'-DDD	110	--	--	--	--	--
4,4'-DDT	74	--	--	--	--	--
<u>TICs†</u>						
benzene, 1-ethyl-2-methyl (611-14-3)	--	70,000J	--	--	--	--
benzene, 1,3,5-trimethyl (108-67-8)	--	50,000J	--	--	--	--
benzene, 1,2,3-trimethyl (526-73-8)	--	60,000J	--	--	--	--
benzene, 1-methyl-3-propyl (1074-43-7)	--	20,000J	--	--	--	--
benzene, 1-methyl-3-ethyl (620-14-4)	--	30,000J	--	--	--	--
decane (124-18-5)	--	40,000J	--	--	--	--
1-methylnaphthalene	--	30,000J	--	--	--	--

Tabler 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number					
	S1	S2	S3	S4	S5	S6
1,3-dimethylnaphthalene✓	--	--	--	2,000J	--	--
1,7-dimethylnaphthalene✓ (575-37-1)	--	--	--	2,000J	--	--
<u>Analyte Detected</u> (values in mg/kg)						
aluminum	13,700	3,910	1,900	2,570	1,970	12,800
antimony✓	--	6.8B	--	--	--	--
arsenic	7.3	9.2+J	4.5	4.5	2B	6.5
barium	149	33.3B	17.6B	20.1B	83.6	107
beryllium	0.95B	0.6B	0.47B	0.56B	0.56B	0.87B
cadmium✓	--	1.1B	--	--	1.6J	--
calcium✓	8,300	128,000	122,000	141,000	154,000	6,870
chromium	23.7	31.2	5.1J	6.9	45.6	19.1
cobalt	13.4	4B	3.1B	2.7B	1.9B	13.2
copper✓	25.4	44	23.8J	13.2J	93.9	22.6J
iron	23,600	12,300	9,160	9,790	21,000	19,600
lead✓	75.5	11.9	5.9	5.7	28.1	21.4
magnesium✓	5,420	30,200	64,800	75,200	76,700	5,220
manganese	581J	188J	218J	420J	267J	778J
mercury✓	0.14	--	--	--	--	--
nickel	25.2	8.8B	6.7B	6.5B	6.1B	20.5
potassium	1,910J	2,190J	390B	698B	514B	1,360
selenium✓	0.67BWJ	--	--	--	--	--
sodium✓	71.2BJ	278B	196B	258B	528B	62.2BJ
thallium	0.77B	--	--	0.37B	0.3B	0.79B
vanadium	29.1	9.2B	9.8B	13.9	4.4B	28.6
zinc✓	95.3	91.5	24.7	26.8	167	54.6

-- Not detected.

+ TIC Chemical Abstracts Service (CAS) numbers, if available, are provided in parentheses.

Table 4-2  
RESULTS OF CHEMICAL ANALYSIS OF  
FIT-COLLECTED MONITORING WELL SAMPLES

Sample Collection Information and Parameters	<u>Sample Number</u>		
	MW1	Duplicate	Blank
Date	11/14/90	11/14/90	11/14/90
Time	1430	1430	1300
CLP Organic Traffic Report Number	EHZ96	EHZ98	EHZ99
CLP Inorganic Traffic Report Number	MEHN66	MEHN68	MEHN69
Temperature (°C)	59	59	58
Specific Conductivity (µmhos/cm)	1,647	1,647	11.78
pH	11.10	11.10	9.85

Compound Detected  
(values in µg/L)

Volatile Organics

chloroethane ✓	9J	9J	--
acetone ✓	--	15	--
carbon disulfide ✓	7	--	--
1,1-dichloroethane ✓	18	18	--
1,2-dichloroethene (total) ✓	3J	--	--

Analyte Detected  
(values in µg/L)

aluminum	27.8B	24.5B	--
antimony	22.9B	--	--
arsenic	1.2B	1.2B	--
barium	99.3B	11.3B	1.1BJ
calcium	149,000	180,000	135BJ
chromium	--	--	3.7BJ
copper	29.4J	33.8J	6.3BJ
iron	35.1BJ	30.8BJ	--
magnesium	1,670B	1,840B	49.8B
manganese	7B	2.2B	--
nickel	69.6	94.2	--

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
+	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value may be biased.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

Table 4-2 (Cont.)

Sample Collection Information and Parameters	MW1	Sample Number	
		Duplicate	Blank
potassium	10,200	12,300	--
sodium	76,000	89,300	112BJ
vanadium	3.5B	3B	--
zinc	9.6BJ	6.4BJ	3.2B

-- Not detected.

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

## 5. DISCUSSION OF MIGRATION PATHWAYS

### 5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the Venus site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

### 5.2 GROUNDWATER

The TCL compound 1,1-dichloroethane was detected in MW1 at 18 µg/L. The TAL analytes detected in MW1 include copper (33.8J µg/L) and nickel (94.2 µg/L) (see Table 4-2 for the definition and interpretation of the qualifier). Because there is no upgradient well sample, the TCL compound and TAL analytes may not be conclusively attributed to the site.

TCL compounds and TAL analytes were detected at concentrations above background levels in on-site soil samples. In sample S2, ethylbenzene was detected at 2,700J µg/kg, xylene was detected at 16,000J µg/kg, and 1,2-dichlorobenzene was detected at 71,000 µg/kg (see Table 4-1 for the definition and interpretation of the qualifier). In sample S4, 1,2-dichlorobenzene was detected at 7,300 µg/kg. TICs detected included alkylsubstituted benzene compounds. Mercury was detected in soil sample S1 at 0.14 mg/kg. Other detected TAL analytes included arsenic, chromium, and lead.

There is a known history of on-site use of several of the detected TCL compounds. Material Safety Data Sheets for raw materials that are used on-site and that were detected in on-site soil samples include

1,2-dichlorobenzene, xylene, ethyltoluenes, and trimethylbenzenes as constituents (Ashland Chemical Company 1986, 1986a; ICI Americas, Inc. 1982; Cargill, Inc. 1990; EMCO Chemical Distributors, Inc. 1988). Therefore, these TCL compounds are attributable to the Venus site.

There is a potential for the migration of TCL compounds and TAL analytes from the Venus site to groundwater, based on the following information.

- TCL compounds and TAL analytes were detected in on-site soil and monitoring well samples.
- A manufacturing facility that currently uses raw materials containing TCL compounds operates on-site.

The potential for TCL compounds and TAL analytes detected in on-site soil and monitoring well samples to migrate from the site is also based upon the following geological information. The geology of the area of the site consists of unconsolidated glacially derived deposits that overlie sedimentary bedrock. The unconsolidated deposits consist of clay, sand, and gravel. The sedimentary bedrock layers, in descending order, are Niagaran dolomite, Maquoketa Shale, and Glenwood-St. Peter, Ironston-Galesville, and Mt. Simon sandstones (Willman 1971).

Logs of wells in the area of the site indicate that most private wells draw from the Niagaran dolomite (see Appendix E for well logs of the area of the site). The unconsolidated deposits and the Niagaran dolomite are considered to be hydraulically connected because there is no confining layer that separates them (Willman 1971). Consequently, they are considered to act as a single aquifer and to be the aquifer of concern (AOC). The depth to the AOC, as evaluated from static water levels recorded in well logs, is approximately 25 feet. The sandstone formations are used as aquifers, but the Maquoketa Shale layer is believed to act as a confining layer between the Niagaran dolomite and the sandstone formations (Willman 1971). As a result, the sandstone aquifers are not considered to be parts of the AOC.

Drinking water for the local population is obtained from three sources: surface water intakes, groundwater from municipal wells, and groundwater from private wells. Residents within a 3-mile radius of the site in Des Plaines, Elk Grove Village, and Chicago obtain their drinking water from surface water intakes in Lake Michigan via their respective water departments (Fox 1990; Cox 1985; Walter 1990). Elk Grove Village maintains eight wells for emergency use only (Walter 1990). Six of the eight wells draw from below the Maquoketa Shale confining unit. The two wells in the AOC and four of the six other wells are within a 3-mile radius of the site (Woller, Sanderson, and Sargent 1986). However, because these wells are for emergency use only, they are not considered to be affected.

The municipal water systems of Bensenville, Itasca, and Wood Dale are cross-connected. The city of Bensenville's four wells draw from below the Maquoketa Shale confining unit. The cities of Itasca and Wood Dale each operate four wells that draw from the AOC. Wood Dale operates two additional wells. One of the wells is approximately 1/4 mile south of the site, draws water from below the Maquoketa Shale confining unit, and serves only industrial customers. Water from the wells within each municipality's system is blended before distribution (Woller, Sanderson, and Sargent 1986; Grossi 1990; Kindermann 1990).

The Itasca and Wood Dale wells in the AOC draw water from depths of 81 to 260 feet and range in depth from 107 to 260 feet. The total population served by these wells, plus the population in Bensenville, is approximately 34,504 persons (Woller, Sanderson, and Sargent 1986; U.S. Bureau of the Census 1982a).

Well logs of the area of the site indicate that private wells draw from the AOC. The wells vary in total depth from 127 to 230 feet. The nearest well is approximately 3/8 miles south of the site. Approximately 829 persons obtain drinking water from private wells within a 3-mile radius of the site. This estimate was calculated by counting 284 houses on U.S. Geological Survey (USGS) maps and multiplying this number by 2.92, the persons-per-household average for DuPage County (USGS 1961, 1962, 1963, 1963a; U.S. Bureau of the Census 1982). Areas not served by public water systems were identified by local water officials (Grossi 1990; Weinstock 1990; Kindermann 1990).

A potential does not exist for TCL compounds and TAL analytes to migrate from the site via windblown particles. Under normal operating conditions, no soil is exposed to the wind. At the time of the SSI, the dirt that was removed from the UST containment structure was completely covered with a blue tarpaulin to prevent wind erosion.

### 5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, no documentation exists of an incident of fire or explosion at the site. However, Lt. Mitchell Crocetti of the Wood Dale Fire Department reported one incident that occurred in approximately 1936. Heavy smoke from the facility's injection molding machine forced the evacuation of the building, but any fire was extinguished before firefighters arrived at the site. Damage from the fire was apparently limited to the injection molding machine. Crocetti did not believe that the Venus site is a fire hazard, and he reported that he was not aware of any hazardous waste incidents at the site (Crocetti 1991).

According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI.

### 5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representatives, no incidents of direct contact with TCL compounds or TAL analytes at the Venus site have been documented.

However, a potential for direct contact with TCL compounds or TAL analytes does exist and is based upon the following information.

- The site is not fenced on any side.
- TCL compounds and TAL analytes were detected in on-site soil samples.
- Approximately 40 employees work at the site.

A total of approximately 35,333 persons obtain their drinking water from sources that could be affected by the migration of TCL compounds and TAL analytes: 18,380 persons who obtain their water from municipal wells in the AOC (11,251 in Wood Dale; 7,129 in Itasca); 829 persons (in Addison Township) who obtain their water from private wells in the AOC; and 16,124 persons in Bensenville whose municipal water system is cross-connected with a water system that obtains water from the AOC. The possibility for residents in Elmhurst, Elk Grove Village, and other municipalities to obtain their drinking water from wells that draw from the AOC does exist because the water systems of Itasca and Wood Dale are cross-connected with Bensenville's water system which, in turn, is cross-connected with the water systems of other municipalities. However, the extent of water usage from wells in the AOC that are in the cross-connected systems is not known, therefore no additional target population has been estimated (Woller, Sanderson, and Sargent 1986; U.S. Bureau of the Census 1982a).

### 5.3 SURFACE WATER

In accordance with the U.S. EPA-approved work plan, no surface water samples were collected during the SSI of the Venus site. The nearest surface water body is approximately 1 1/10 mile west of the site. However, topographic and man-made features would prevent runoff to any surface water body. The unnamed tributary of the Des Plaines River was removed entirely when adjacent properties were developed in the 1980s.

### 5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the Venus site. During the reconnaissance inspection, FIT site-entry instruments (HNU, OVA, hydrogen cyanide monitor, radiation monitor, and explosimeter) did not detect levels that deviated from background concentrations at the site. However, during the sampling of monitoring well MW1, the HNU did detect organic vapors at the top of the well casing; although none were detected in the breathing zone. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the site is 4,782 persons. This population was calculated by counting houses within a 1-mile radius of the site on a USGS topographic map (USGS 1963a) and multiplying this number by the persons-per-household value of 2.92 for DuPage County (U.S. Bureau of the Census 1982). This population was added to the approximately 3,938 persons in Wood Dale and 578 persons in Elk Grove Village, who live within a 1-mile radius of the site.

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\_\_\_\_\_, 1963a, photorevised 1972, Elmhurst, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.

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Survey, Champaign, Illinois.

6889:9

APPENDIX A

SITE 4-MILE RADIUS MAP



APPENDIX B

U.S. EPA FORM 2070-13



# Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE ILD 02 SITE NUMBER 002 992 220

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Venus Lab., Inc.  
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 855 Lively Blvd.  
03 CITY Wood Dale  
04 STATE IL 05 ZIP CODE 60191 06 COUNTY DuPage  
07 COUNTY CODE 043 08 CONG. DIST. 06  
09 COORDINATES  
LATITUDE 41 52 45.0" LONGITUDE 87 52 32.0"  
10 TYPE OF OWNERSHIP (Check one)  
☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL  
☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

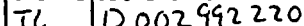
01 DATE OF INSPECTION 11/14/90  
MONTH DAY YEAR  
02 SITE STATUS  
☒ ACTIVE  
☐ INACTIVE  
03 YEARS OF OPERATION  
1975 present  
BEGINNING YEAR ENDING YEAR  
04 AGENCY PERFORMING INSPECTION (Check all that apply)  
☐ A. EPA ☒ B. EPA CONTRACTOR Ecology & Environment (Name of firm)  
☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR (Name of firm)  
☐ E. STATE ☐ F. STATE CONTRACTOR (Name of firm)  
☐ G. OTHER (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Charles Hall	Environmental Engineer	E&E/FIT	(312) 663-9415
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Catherine J. Kouris	Environmental Scientist	E&E/FIT	(312) 663-9415
Jennifer L. Dubay	Natural Resources Manager	E&E/FIT	(312) 663-9415
Gregory Youngstrom	Biologist	E&E/FIT	(312) 663-9415
Ronald Bugg	Industrial Hygienist/ Health Physicist	E&E/FIT	(312) 663-9415
			( )
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
John Manolas	V.P. Research & Development	Venus Labs, Inc. 855 Lively Blvd. Wood Dale, IL	(708) 595-1900
Ellie Manolas	Office Manager	Venus Labs, Inc. 855 Lively Blvd. Wood Dale, IL	(708) 595-1900
Mike Marresse	Plant Manager	Venus Labs, Inc. 855 Lively Blvd. Wood Dale, IL	(708) 595-1900
Irving Dromsky	Consultant	Allied Labs 716 N. Town Ave. Villa Park, IL	(708) 279-0390
			( )
			( )

17 ACCESS GAINED BY (Check one)  
☐ PERMISSION  
☒ WARRANT  
18 TIME OF INSPECTION 9:00 a.m. - 4:00 p.m.  
19 WEATHER CONDITIONS Sunny, clear, calm ~50-60°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.		
Tom Crause	Illinois Environmental Protection Agency	(217) 782-9848		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Charles Hall	U.S. EPA	E&E/FIT	312/663-9415	3/27/91 MONTH DAY YEAR



## EPA FORM 2070-13 (7-81)



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL 0002992220

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: ~35333 04 NARRATIVE DESCRIPTION

See Section 5.2 of the Narrative for Details.

01 ☐ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

See Section 5.3 of the Narrative for Details.

01 ☐ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

See Section 5.4 of the Narrative for Details.

01 ☐ D FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

See Section 5.5 of the Narrative for Details.

01 ☒ E DIRECT CONTACT 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 4782 04 NARRATIVE DESCRIPTION

See Section 5.6 of the Narrative for Details.

01 ☒ F CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 14 Nov 90) ☐ POTENTIAL ☐ ALLEGED  
03 AREA POTENTIALLY AFFECTED: ~1 04 NARRATIVE DESCRIPTION  
(ACRES)

See Section 5.2 of the Narrative for Details.

01 ☒ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: ~35333 04 NARRATIVE DESCRIPTION

See Section 5.2 of the Narrative for Details.

01 ☒ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: ~40 04 NARRATIVE DESCRIPTION

See Section 2.3 of the Narrative for Details.

01 ☒ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: ~35333 04 NARRATIVE DESCRIPTION

See Section 5.2 of the Narrative for Details.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1 IDENTIFICATION  
01 STATE 02 SITE NUMBER  
IL D002992220

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED

Discolored grass was observed during an off-site reconnaissance inspection in July 1990. No discolored vegetation was observed during the on-site inspection in November 1990. However, a potential for damage to flora does exist.

01 ☒ K DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED

No damage to fauna was observed during the site inspection. The potential for damage to fauna is considered to be low because the site is in a developing industrial park.

01 ☐ L CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

Contamination of the food chain is unlikely because no land within a 4-mile radius of the site is used for agriculture.

01 ☒ M UNSTABLE CONTAINMENT OF WASTES  
Spills, Runoff, Standing liquids, Leaking drums

02 ☒ OBSERVED (DATE: 19 Nov 90) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: ~35333 04 NARRATIVE DESCRIPTION

See Sections 2.3 and 5.2 of the Narrative for Details

01 ☐ N DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

No damage to off-site property was observed during the site inspection.

01 ☒ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS  
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: July 1978) ☐ POTENTIAL ☐ ALLEGED

In July 1978, the Wood Dale City Manager reported to IEPA damage that was believed to have been caused by chemical discharges at Venus Labs. Part of the city's sewer system was damaged. See Section 2.3 of the Narrative for Details.

01 ☒ P ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☒ ALLEGED

IEPA inspectors observed evidence of spilled and leaked chemicals at the site during 26 site inspections between July 1980 and April 1984. See Section 2.3 of the Narrative for Details.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None noted.

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~35333

IV. COMMENTS

None.

V. SOURCES OF INFORMATION (See specific references e.g., State files, sample analysis, records)

E&E/FIT Site Inspection November 1990.  
E&E/FIT Region V Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE	No permits from U.S. EPA or IEPA.			

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE  One
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND	Unknown	55-gallon	<input type="checkbox"/> C. CHEMICAL/PHYSICAL	06 AREA OF SITE  ~ 1 (acres)
<input checked="" type="checkbox"/> D. TANK, ABOVE GROUND	1	500gallon	<input type="checkbox"/> D. BIOLOGICAL	
<input checked="" type="checkbox"/> E. TANK, BELOW GROUND	8	4000	<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input checked="" type="checkbox"/> H. OTHER none known (Specify)	
<input checked="" type="checkbox"/> I. OTHER Tank, aboveground (Specify)	3	1200 gallon		

07 COMMENTS

At the time of the preparation of the SSIR and this 2070-13, the site owners were taking action to remove the 8 USTs from the site. See Section 2.3 of the Narrative for more information.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)  
☒ A. ADEQUATE, SECURE    ☐ B. MODERATE    ☐ C. INADEQUATE, POOR    ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, Diking, LINERS, BARRIERS, ETC.

There is no known liner under the site. Empty 55-gallon drums are returned to Venus Labs' supplier(s). See Sections 2.3 and 3.3 for more details.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

There are no fences at the site to prevent access.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

E&E/FIT Site Inspection, November 1990.  
E&E/FIT Region V Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D002992220

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY  
(Check as applicable)

SURFACE

WELL

COMMUNITY

A. ☐

B. ☒

NON-COMMUNITY

C. ☐

D. ☐

02 STATUS

ENDANGERED

A. ☐

D. ☐

AFFECTED

B. ☐

E. ☐

MONITORED

C. ☒

F. ☐ Unknown

03 DISTANCE TO SITE

A. ~5/8 (mi)

B. ~3/8 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING

☐ B. DRINKING

(Other sources available)

☐ C. COMMERCIAL INDUSTRIAL IRRIGATION

(Limited other sources available)

☐ D. NOT USED, UNUSEABLE

COMMERCIAL INDUSTRIAL IRRIGATION  
(No other water sources available)

02 POPULATION SERVED BY GROUND WATER

~35333

03 DISTANCE TO NEAREST DRINKING WATER WELL

~3/8 (mi)

04 DEPTH TO GROUNDWATER

~25 (ft)

05 DIRECTION OF GROUNDWATER FLOW

Unknown

06 DEPTH TO AQUIFER  
OF CONCERN

~25 (ft)

07 POTENTIAL YIELD  
OF AQUIFER

Unknown (gpd)

08 SOLE SOURCE AQUIFER

☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

See Section 5.2 of the Narrative for details.

10 RECHARGE AREA

☒ YES

COMMENTS

Primary recharge  
through precipitation,  
infiltration

☐ NO

11 DISCHARGE AREA

☐ YES

COMMENTS

No likely discharge points  
within 1 mile of the site.

☒ NO

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION  
DRINKING WATER SOURCE

☐ B. IRRIGATION, ECONOMICALLY  
IMPORTANT RESOURCES

☐ C. COMMERCIAL INDUSTRIAL

☒ D. NOT CURRENTLY USED

02 AFFECTED POTENTIALLY AFFECTED BODIES OF WATER

NAME

AFFECTED

DISTANCE TO SITE

No surface water migration routes were observed.

n/a

(mi)

(mi)

(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE

A. ~4782

NO OF PERSONS

TWO (2) MILES OF SITE

B. ~35611

NO OF PERSONS

THREE (3) MILES OF SITE

C. ~62829

NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION

on-site (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

~12196 homes

04 DISTANCE TO NEAREST OFF-SITE BUILDING

~10 ft. (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural village, densely populated urban area)

The site is located in an industrial park that is approximately  
3 miles west of the western border of O'Hare International  
Airport.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A.  $10^{-8} - 10^{-6}$  cm/sec ☒ B.  $10^{-4} - 10^{-6}$  cm/sec ☐ C.  $10^{-4} - 10^{-3}$  cm/sec ☐ D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than  $10^{-8}$  cm/sec) ☒ B. RELATIVELY IMPERMEABLE ( $10^{-4} - 10^{-6}$  cm/sec) ☐ C. RELATIVELY PERMEABLE ( $10^{-2} - 10^{-4}$  cm/sec) ☐ D. VERY PERMEABLE (Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

~62-170 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

~+6 (in)

07 ONE YEAR 24 HOUR RAINFALL

~+2.4 (in)

08 SLOPE  
SITE SLOPE

<3%

DIRECTION OF SITE SLOPE

n/a

TERRAIN AVERAGE SLOPE

<3%

09 FLOOD POTENTIAL

SITE IS IN n/a YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

n/a

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

a n/a (mi)

OTHER

B. ~1/2 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

>1 (mi)

ENDANGERED SPECIES:

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

a 10 ft (ft)

B. ~3/8 (mi)

c. n/a (mi) D. > 4 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Refer to 4-mile radius map - see Appendix A.

VII. SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)

E&E/FIT Site Inspection November 1990. E&E/FIT Region V Files.  
U.S. Climatic Atlas 1979.  
U.S.G.S. Topographic Maps; Arlington Heights, Elmhurst, Lombard,  
& Palatine



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 6 - SAMPLE AND FIELD INFORMATION

I IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	1	TCL: Wadsworth Alert Labs Canton, Ohio TAL: Columbia Analytical Serv. Kelso, WA	On File
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	6	TCL: Wadsworth Alert Labs Canton, Ohio TAL: Columbia Analytical Serv. Kelso, WA	On File
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Radiation	
Mini-Alert	No measurements above background
Explosimeter	No measurements above background
H <sub>2</sub> CN-Monitor	No measurements above background
H <sub>2</sub> Nu OVA	Measurements of 5-7 ppm at 1 sample location. No other above bkgd.
Oxygen meter	No deviations from background concentrations

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology & Environment Chicago, IL <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology & Environment, Inc. Chicago, Illinois

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

pH, temperature, conductivity of MW sample (See Table 4-2 for details).  
Water level (See Table 3-1 in SSIR Narrative for details).  
Well depth (See Table 3-1 in SSIR Narrative for details).

VI. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis, reports)

EBE/FIT Site Inspection 1990.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. CURRENT OWNER(S)

01 NAME Venus Laboratories, Inc.			02 D+B NUMBER unknown			08 NAME none			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 855 Lively Blvd.			04 SIC CODE unknown			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY Wood Dale			06 STATE IL			07 ZIP CODE 60191			12 CITY			13 STATE			14 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			08 NAME n/a			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			08 NAME n/a			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			08 NAME n/a			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			08 NAME n/a			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME unknown			02 D+B NUMBER			01 NAME none			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY			06 STATE			07 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			01 NAME n/a			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY			06 STATE			07 ZIP CODE		
01 NAME n/a			02 D+B NUMBER			01 NAME n/a			02 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			05 CITY			06 STATE			07 ZIP CODE		

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

E&E / FIT Site Inspection November 1990.  
E&E / FIT Region V Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - OPERATOR INFORMATION

L IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D00292220

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (if applicable)

01 NAME Venus Laboratories, Inc.		02 D+B NUMBER unknown		10 NAME none		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 855 Lively Blvd.		04 SIC CODE unknown		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY Wood Dale		06 STATE IL	07 ZIP CODE 60191	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 1975+present		09 NAME OF OWNER Venus Laboratories					

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)

01 NAME Unknown		02 D+B NUMBER		10 NAME none		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME n/a		02 D+B NUMBER		10 NAME n/a		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME n/a		02 D+B NUMBER		10 NAME n/a		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis, records)

E&E/FIT Site Inspection November 1990.  
E&E/FIT Region V Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. ON-SITE GENERATOR

01 NAME Venus Laboratories Inc.	02 D+B NUMBER unknown	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 855 Lively Blvd.	04 SIC CODE unknown	
05 CITY Wood Dale	06 STATE 07 ZIP CODE IL 60191	

III. OFF-SITE GENERATOR(S)

01 NAME none known	02 D+B NUMBER	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME n/a	02 D+B NUMBER	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME none known	02 D+B NUMBER	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME n/a	02 D+B NUMBER	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

E&E/FIT Site Inspection November 1990  
E&E/FIT Region IV Files.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ S. CAPPING/COVERING  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

w/a

01 ☐ T. BULK TANKAGE REPAIRED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ U. GROUT CURTAIN CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ V. BOTTOM SEALED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ W. GAS CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ X. FIRE CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ Y. LEACHATE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ Z. AREA EVACUATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ 1. ACCESS TO SITE RESTRICTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ 2. POPULATION RELOCATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☒ 3. OTHER REMEDIAL ACTIVITIES  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

Specific response activities are not known. A 1985 consent decree between Venus Labs and the State of Illinois required Venus Labs to address several waste and raw material storage and disposal practices at the site. It is reasonable to believe that spilled material and/or contaminated soil was removed and that waste was repackaged and disposed of elsewhere. However, documentation of these activities is not known to FIT.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

E&E / FIT Site Inspection November 1990.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I IDENTIFICATION

01 STATE 02 SITE NUMBER

FL D002992220

II PAST RESPONSE ACTIVITIES

01 ☐ A WATER SUPPLY CLOSED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ B TEMPORARY WATER SUPPLY PROVIDED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ C PERMANENT WATER SUPPLY PROVIDED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ D SPILLED MATERIAL REMOVED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

none known

01 ☐ E CONTAMINATED SOIL REMOVED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

have knowh

01 ☐ F WASTE REPACKAGED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

none knowh

01 ☐ G WASTE DISPOSED ELSEWHERE  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

none knowh

01 ☐ H ON SITE BURIAL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ I IN SITU CHEMICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ J IN SITU BIOLOGICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ K IN SITU PHYSICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ L ENCAPSULATION  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ M EMERGENCY WASTE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ N CUTOFF WALLS  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ O EMERGENCY DIKING SURFACE WATER DIVERSION  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ P CUTOFF TRENCHES/SUMP  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a

01 ☐ Q SUBSURFACE CUTOFF WALL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

n/a



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D002992220

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

A 1985 consent decree between Venus Labs and the State of Illinois required that Venus Labs prevent spillage and leakage of chemicals from the site. Ten actions were mandated, and a \$4000 fine was paid.

In 1985, Venus Labs plead guilty to four counts of releasing chemicals into an unnamed tributary to the Des Plaines River without a National Pollutant Discharge Elimination System permit. The unnamed tributary was displaced during the development of adjacent property.

See Section 2.3 of the Narrative for further details.

III. SOURCES OF INFORMATION (Use specific references, e.g., state lab sample analysis reports)

EAE/FIT Region V Files  
EAE/FIT site Inspection November 1990.

APPENDIX C

FIT SITE PHOTOGRAPHS

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 1 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

PAN: FIL0319SB

DATE: 14 Nov 90

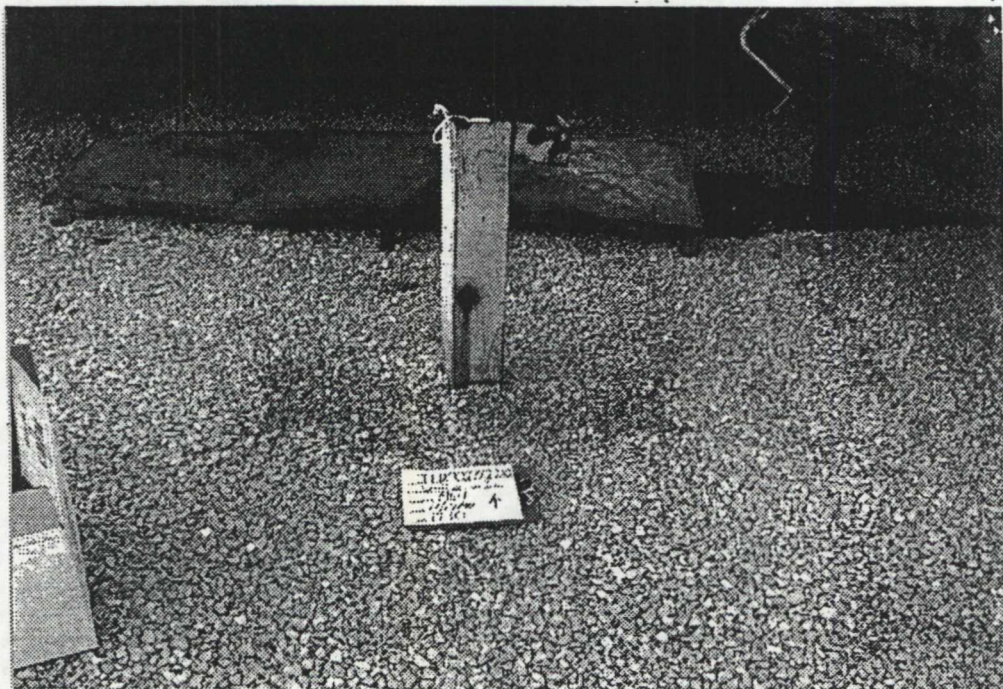
TIME: 15:20

DIRECTION OF  
PHOTOGRAPH:

north

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
MW1

DESCRIPTION: MW1 close up.

DATE: 14 Nov 90

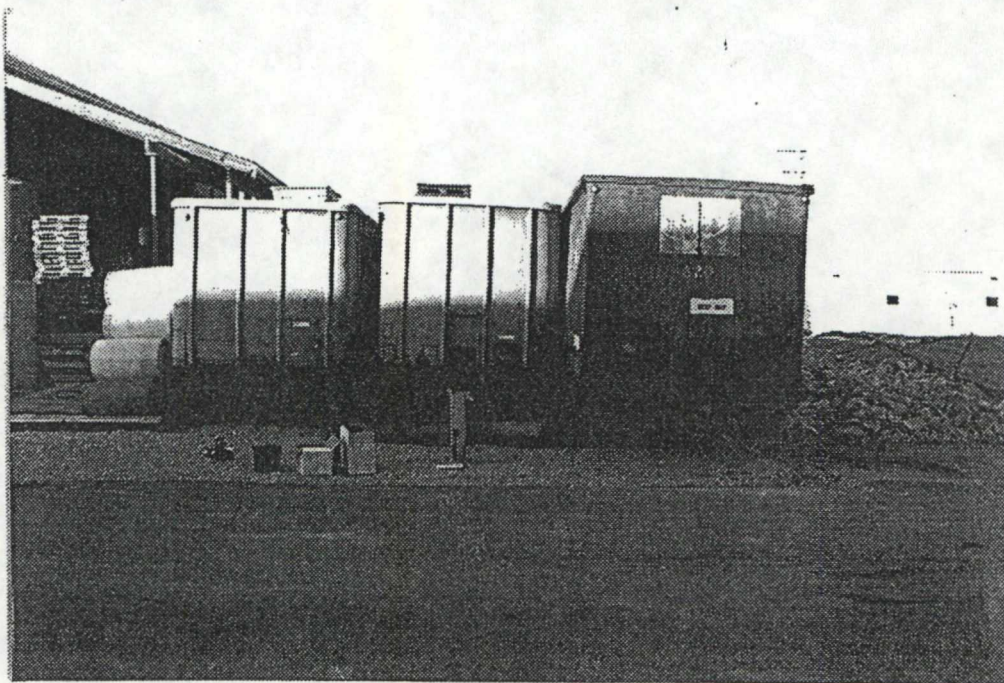
TIME: 15:20

DIRECTION OF  
PHOTOGRAPH:

north

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
MW1

DESCRIPTION: MW1 perspective.

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 2 OF 16

U.S. EPA ID: ILD 002 992 220

TOD: F05-8912-100

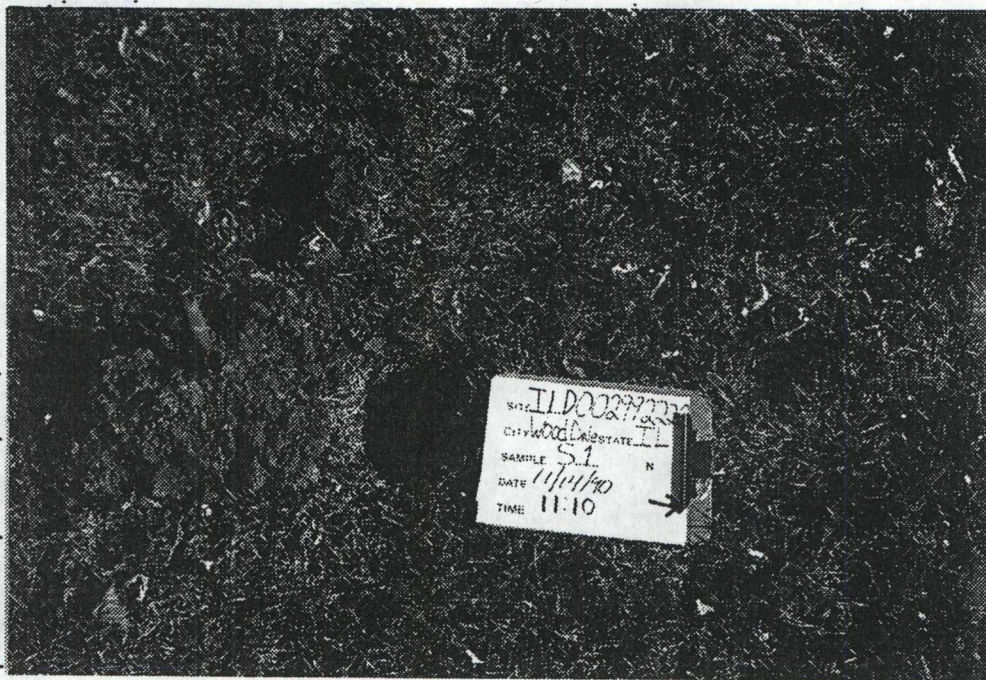
PAN: FIL0319SB

DATE: 14 Nov 90

TIME: 12:15

DIRECTION OF  
PHOTOGRAPH:  
eastWEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
S1

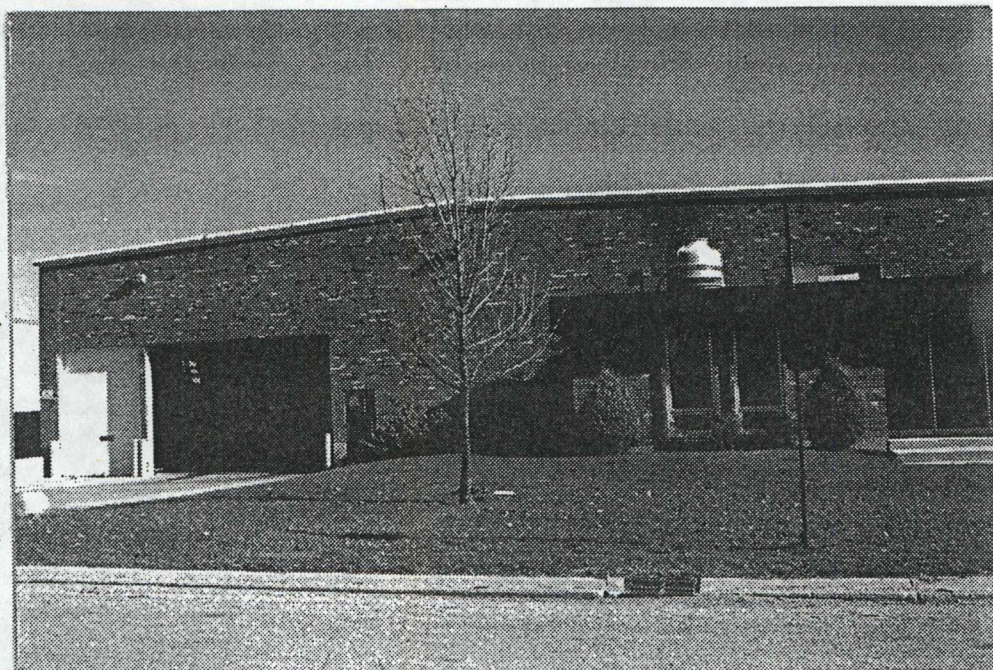
DESCRIPTION: S1 close up.

DATE: 14 Nov 90

TIME: 12:15

DIRECTION OF  
PHOTOGRAPH:  
eastWEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
S1

DESCRIPTION: S1 perspective.

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 3 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

PAR: FIL0319SB

DATE: 14 Nov 90

TIME: 11:47

DIRECTION OF  
PHOTOGRAPH:  
northwestWEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
S2

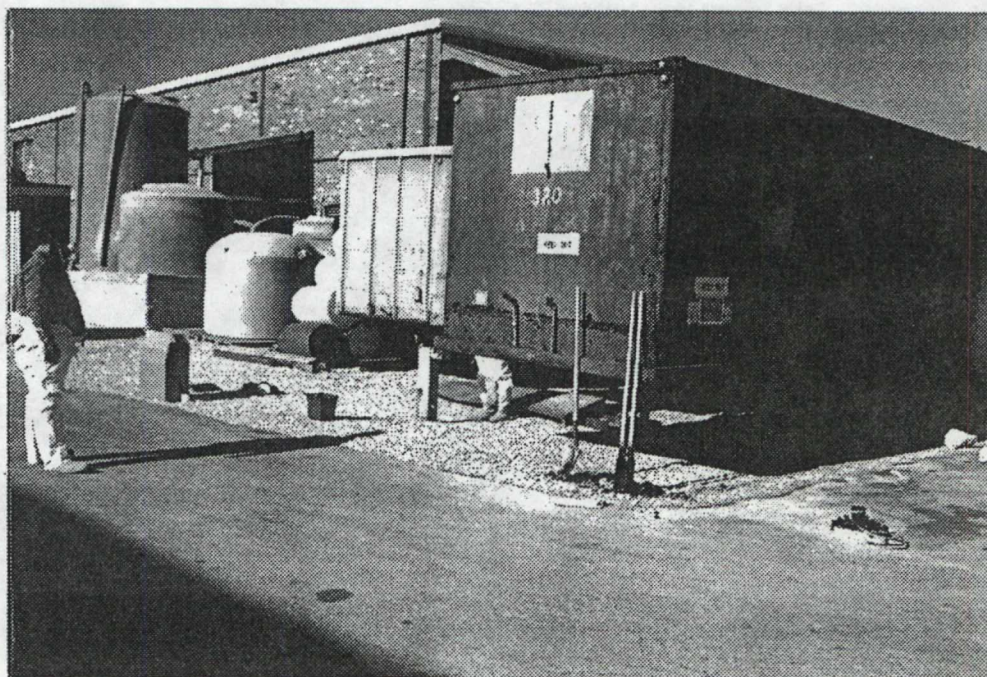
DESCRIPTION: S2 close up.

DATE: 14 Nov 90

TIME: 11:47

DIRECTION OF  
PHOTOGRAPH:  
northwestWEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
S2

DESCRIPTION: S2 perspective.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 4 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

PAR: FIL0319SB

DATE: 14 Nov 90

TIME: 12:11

DIRECTION OF  
PHOTOGRAPH:

north west

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles Hall

SAMPLE ID  
(if applicable):  
S3



DESCRIPTION: S3 close up.

DATE: 14 Nov 90

TIME: 12:11

DIRECTION OF  
PHOTOGRAPH:

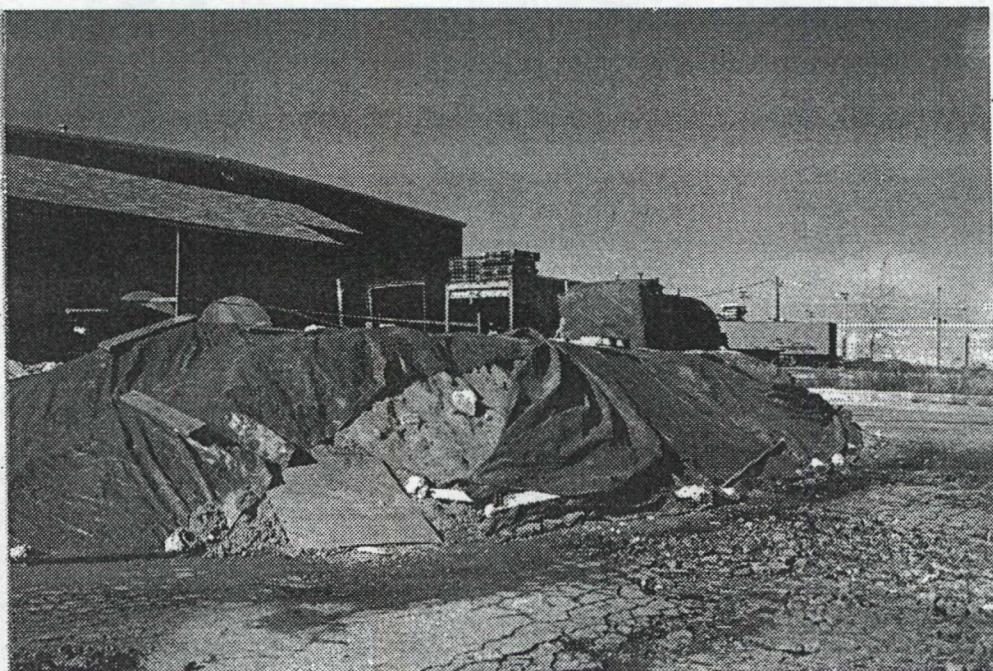
north west

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles Hall

SAMPLE ID  
(if applicable):  
S3



DESCRIPTION: S3 perspective.

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 5 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

PAR: FIL0319SB

DATE: 14 Nov 90

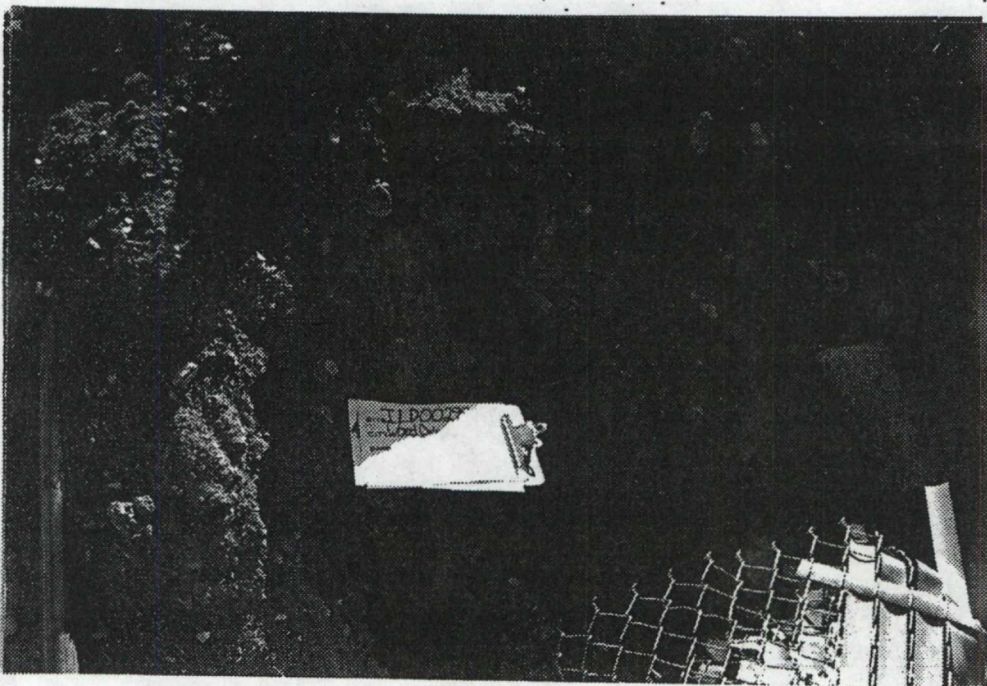
TIME: 12:10

DIRECTION OF  
PHOTOGRAPH:

South

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
S4

DESCRIPTION: S4 close up.

DATE: 14 Nov 90

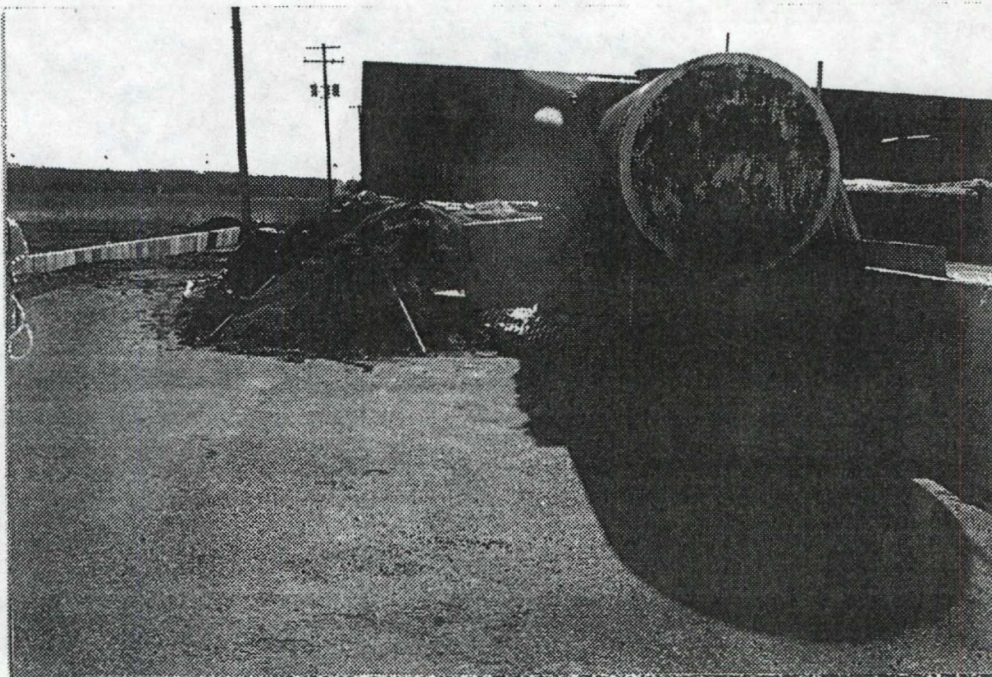
TIME: 12:10

DIRECTION OF  
PHOTOGRAPH:

South

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
S4

DESCRIPTION: S4 perspective.

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 6 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

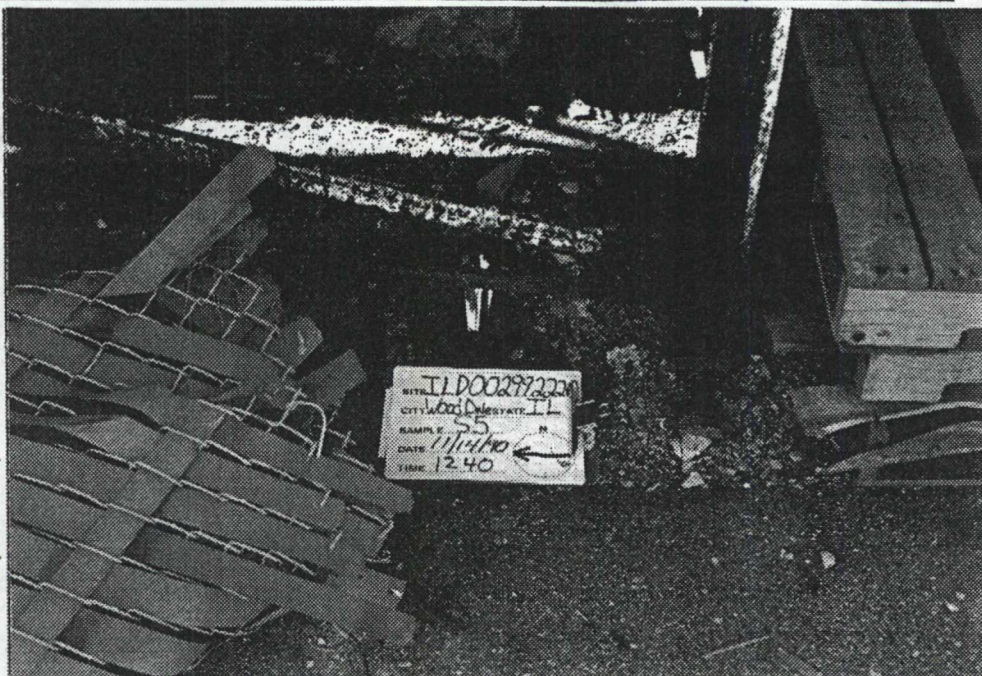
PAN: FIL0319SB

DATE: 14 Nov 90

TIME: 12:45

DIRECTION OF  
PHOTOGRAPH:  
WestWEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
SS

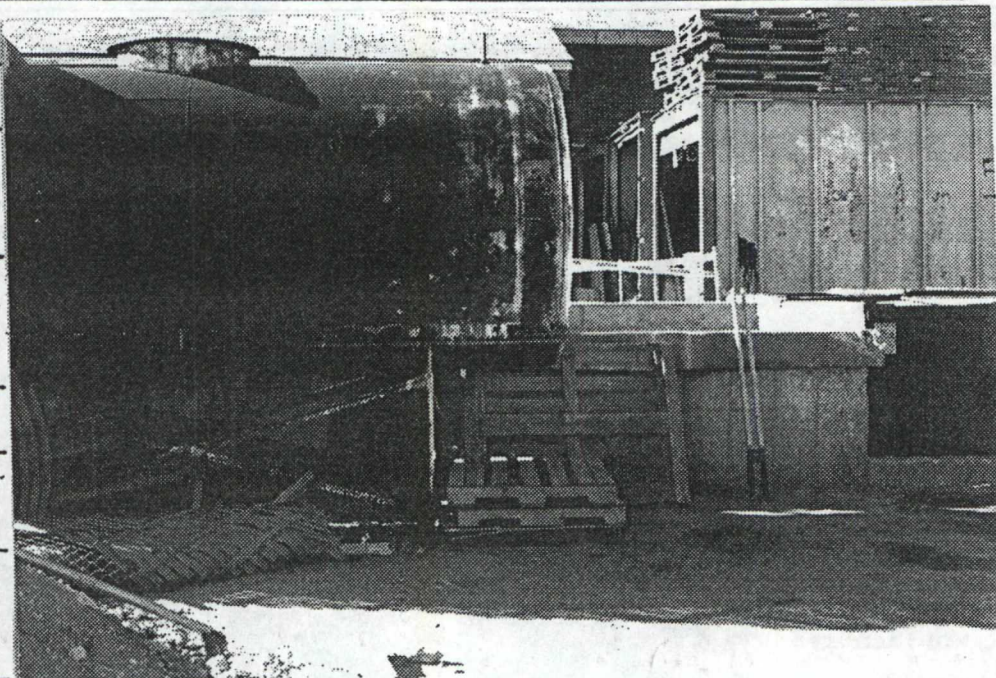
DESCRIPTION: SS close up.

DATE: 14 Nov 90

TIME: 12:45

DIRECTION OF  
PHOTOGRAPH:  
WestWEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
SS

DESCRIPTION: SS perspective.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 7 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

PAR: FIL0319SB

DATE: 14 Nov 90

TIME: 13:24

DIRECTION OF PHOTOGRAPH:

east

WEATHER

CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

S6



DESCRIPTION: S6 close up.

DATE: 14 Nov 90

TIME: 13:24

DIRECTION OF PHOTOGRAPH:

east

WEATHER

CONDITIONS:

sunny, clear 50s F

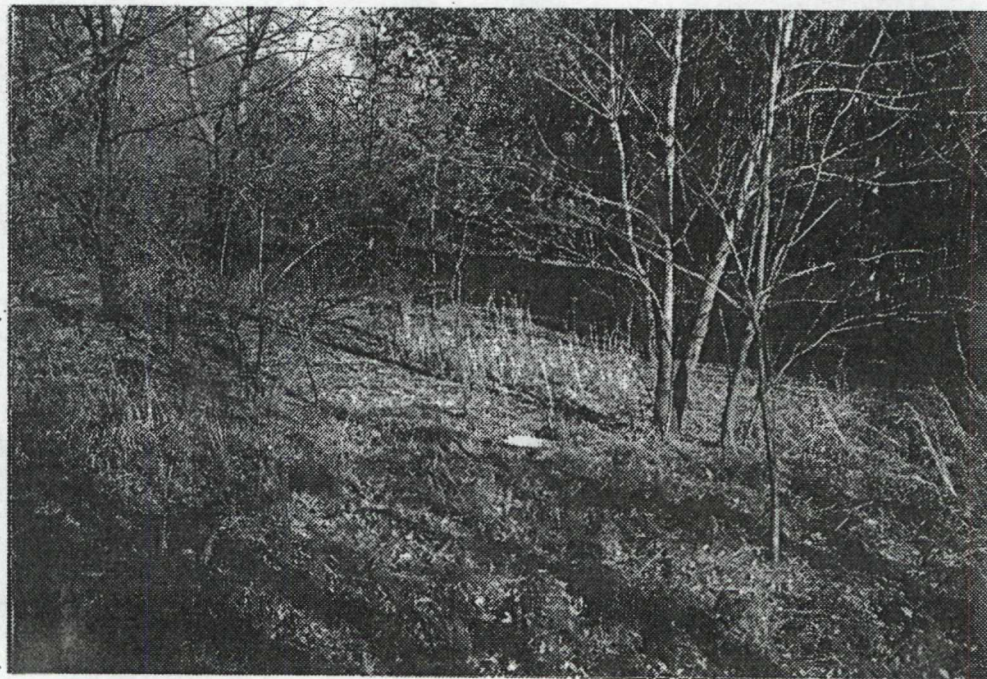
PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

S6



DESCRIPTION: S6 perspective.

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 9 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

PAM: FILO319SB

DATE: 14 Nov 90

TIME: 11:49

DIRECTION OF  
PHOTOGRAPH:

North

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):

n/a

DESCRIPTION: Soil removed <sup>from</sup> around USTs; east end of  
Venus Labs site.

DATE: 14 Nov 90

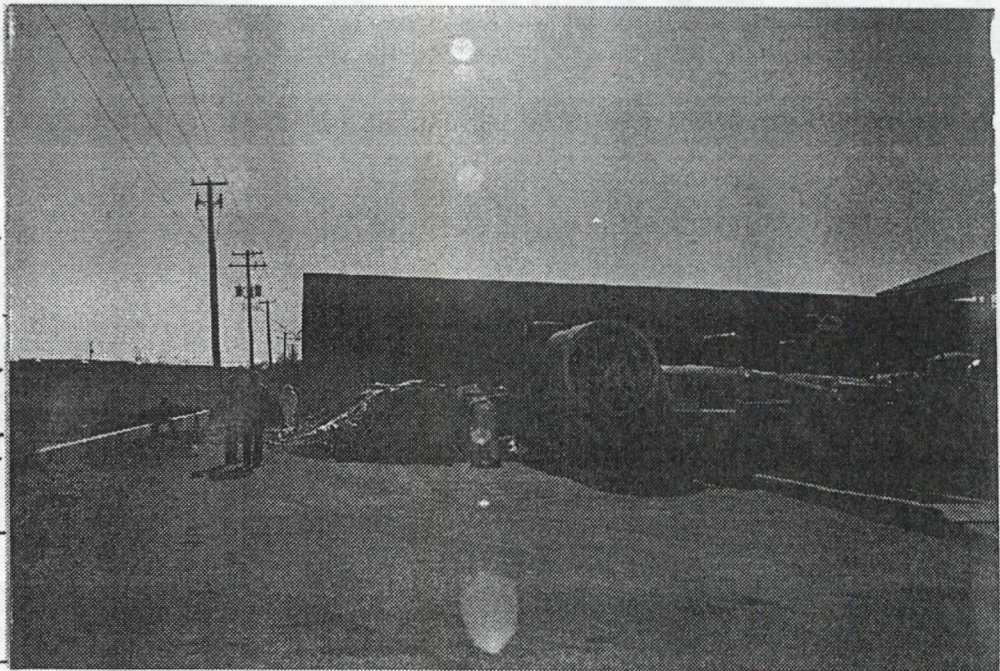
TIME: 12:04

DIRECTION OF  
PHOTOGRAPH:WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):

n/a

DESCRIPTION: Soil that was removed from around USTs; east  
end of Venus Labs site.

FIELD PHOTOGRAPHY LOG SHEET

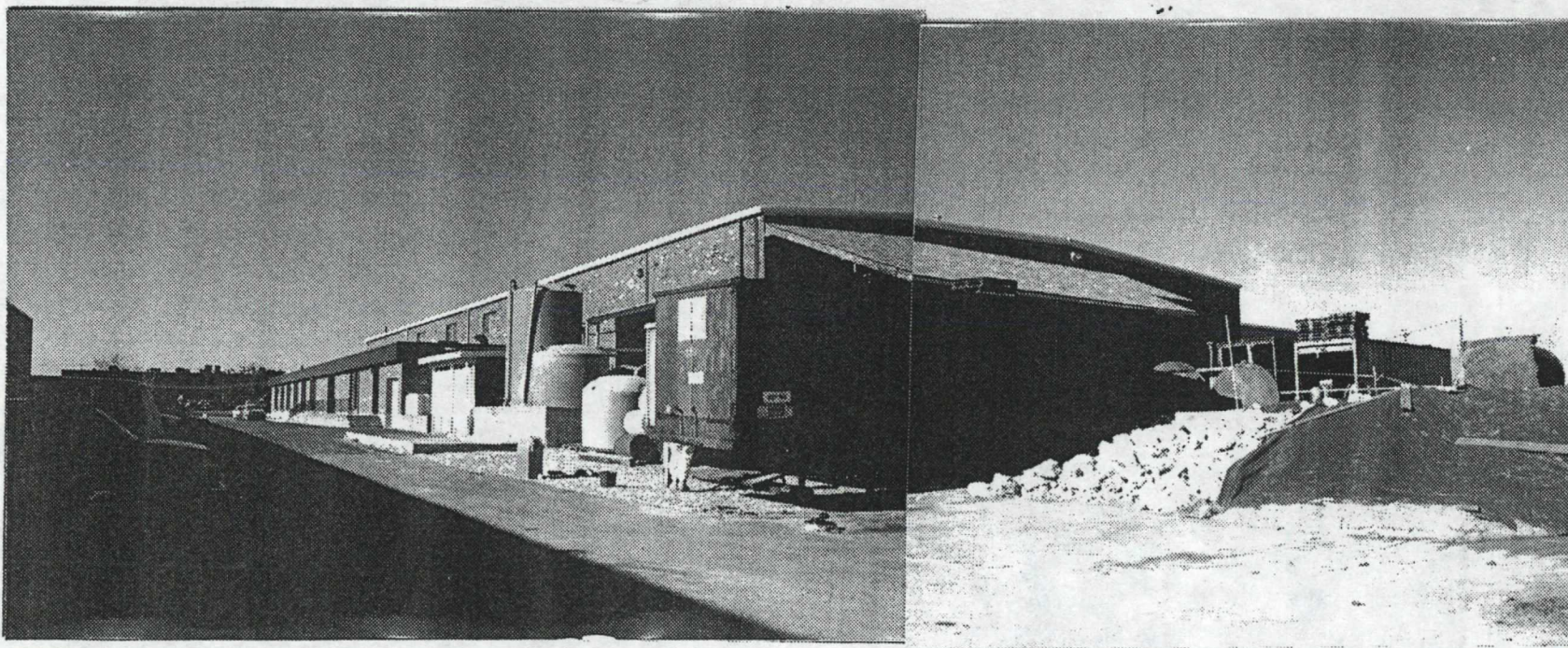
SITE NAME: Venus Laboratories, Inc.

PAGE 8 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

PAN: FIL0319SB



DATE: 14 Nov 90 TIME: 11:49 DIRECTION OF PHOTOGRAPH: W-NW PHOTOGRAPHED BY: Charles Hall

WEATHER CONDITIONS: sunny, clear 50s' F SAMPLE ID (if applicable): n/a

DESCRIPTION: Panorama from southeast corner of the Venus Labs site.

FIELD PHOTOGRAPHY LOG SHEET

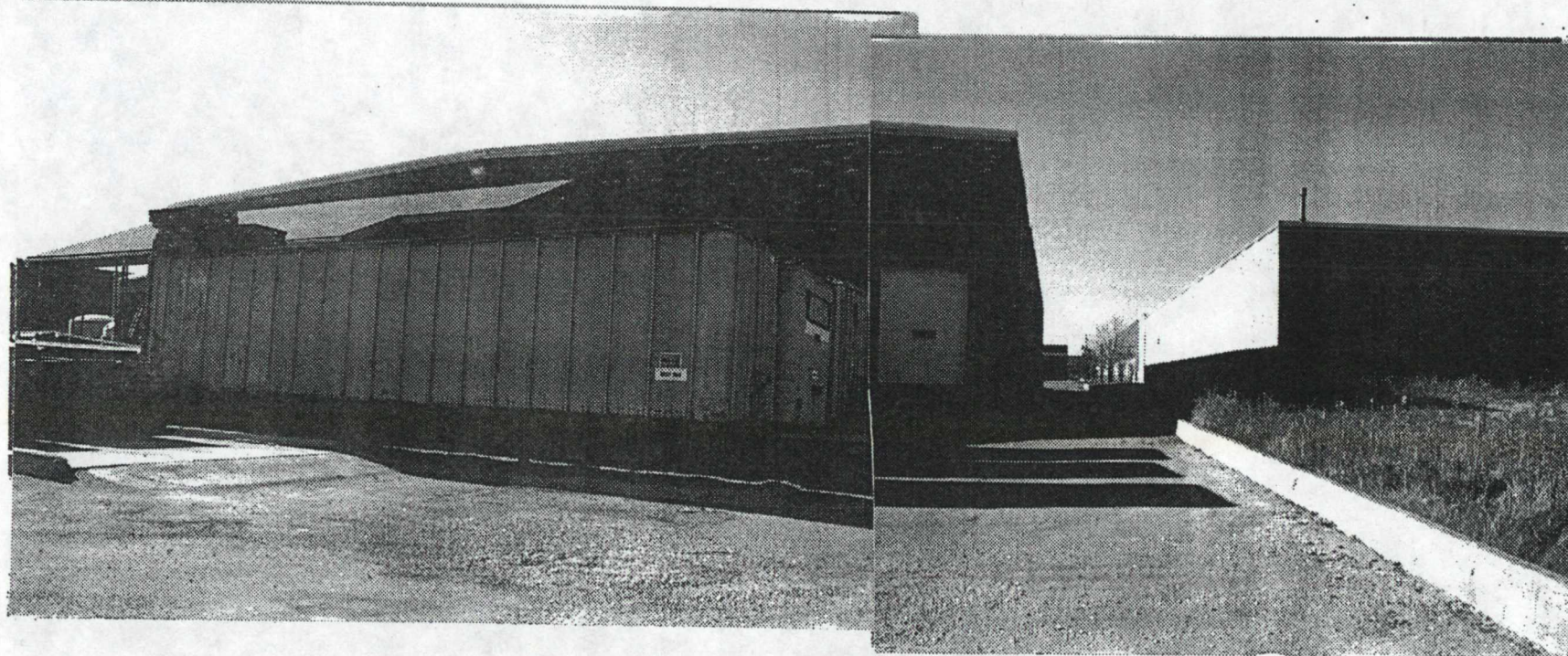
SITE NAME: Venus Laboratories, Inc.

PAGE 11 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

PAN: FIL0319SB



DATE: 14 Nov 90

TIME: 12:04

DIRECTION OF PHOTOGRAPH: SW-W

PHOTOGRAPHED BY: Charles Hall

WEATHER CONDITIONS: sunny, clear 50s F

SAMPLE ID (if applicable): n/a

DESCRIPTION: Panorama from northeast corner of Venus Labs site.

## FIELD PHOTOGRAPHY LOG SHEET

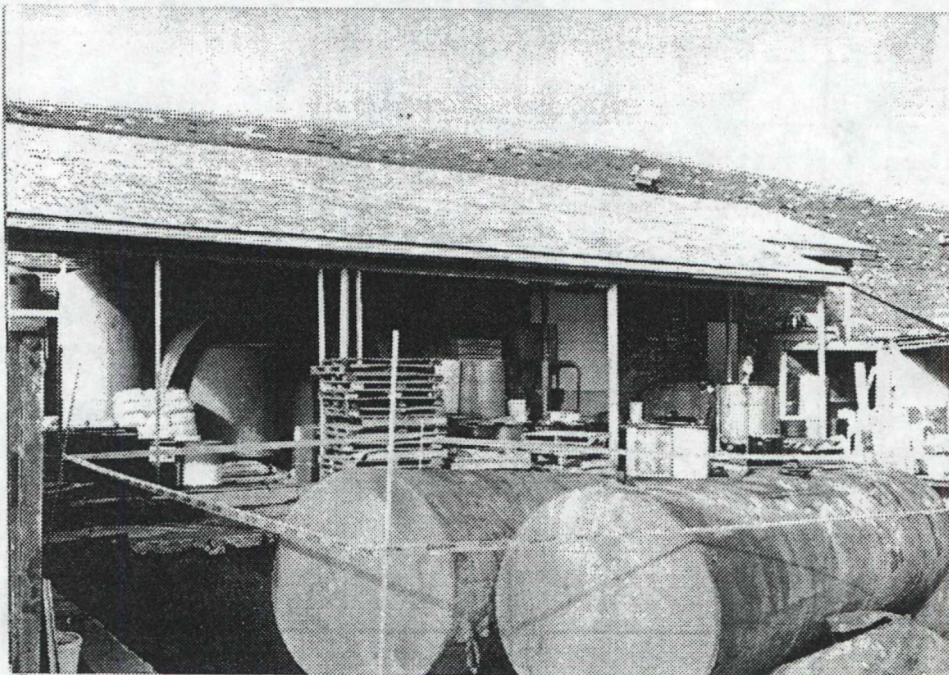
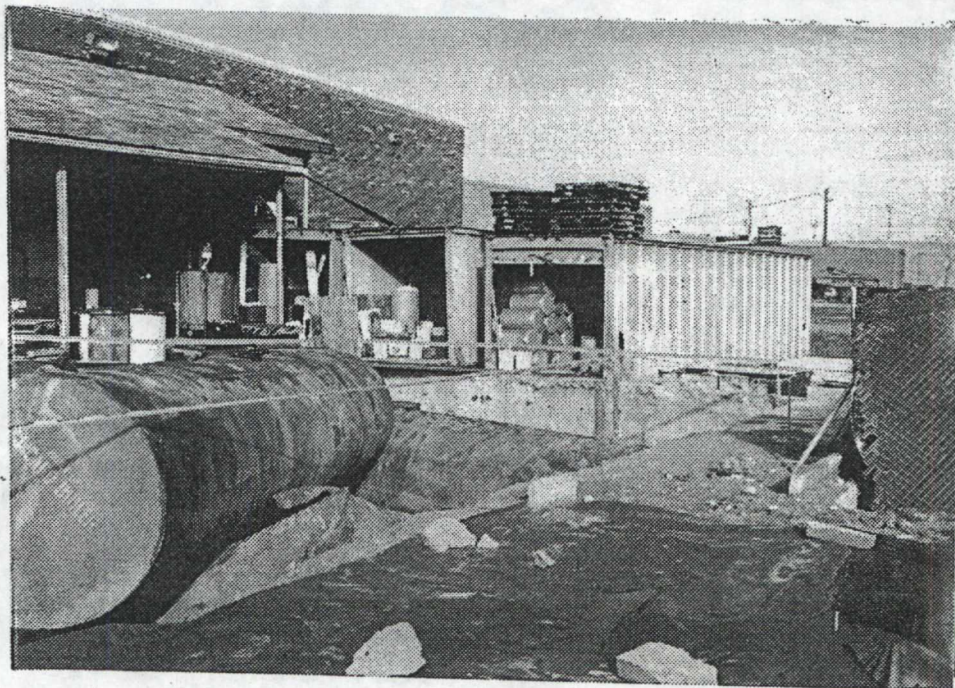
SITE NAME: Venus Laboratories, Inc.

PAGE 10 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

PAR: FILO319SB

DATE: unknownTIME: unknownDIRECTION OF  
PHOTOGRAPH:  
NWWEATHER  
CONDITIONS: ;  
SunnyPHOTOGRAPHED BY:  
Venus LabsSAMPLE ID  
(if applicable):  
n/aDESCRIPTION: Patio storage area in rear of Venus'  
building and UST emplacement.DATE: unknownTIME: unknownDIRECTION OF  
PHOTOGRAPH:  
NWWEATHER  
CONDITIONS:  
SunnyPHOTOGRAPHED BY:  
Venus LabsSAMPLE ID  
(if applicable):  
n/aDESCRIPTION: Patio storage area, semi-trailers used for  
storage and UST emplacement.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 12 OF 16

U.S. EPA ID: ILD 002 992 220

ID: F05-8912-100

PAR: FIL0319SB

DATE: 14 Nov 90

TIME: 12:17

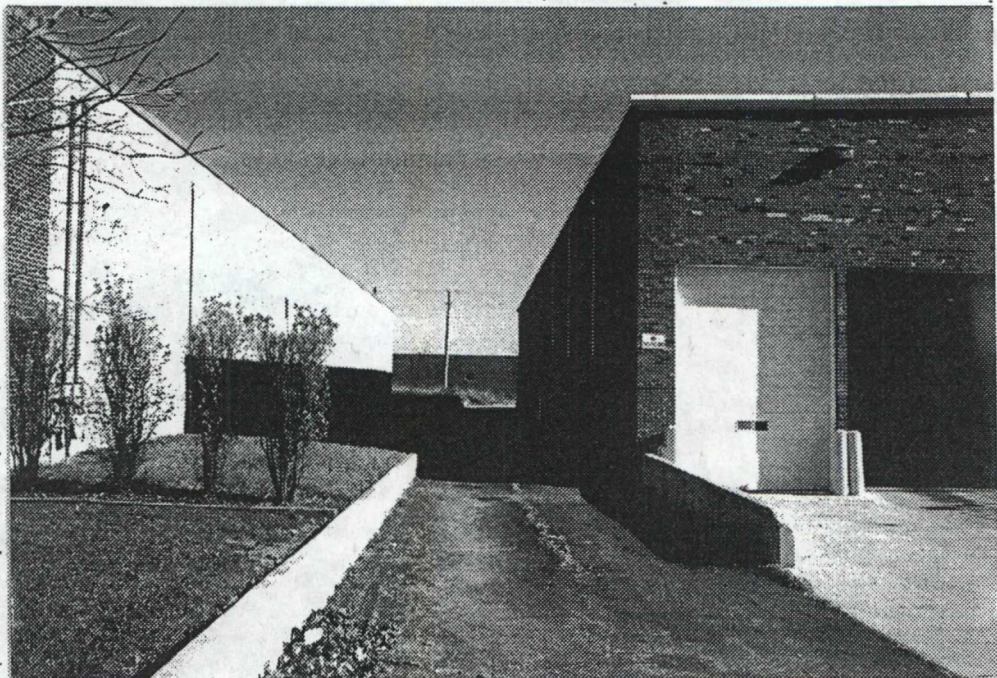
DIRECTION OF  
PHOTOGRAPH:  
east

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles Hall

SAMPLE ID  
(if applicable):  
n/a



DESCRIPTION: Driveway along northside of Venus' building;  
portion of driveway and garage to inside loading dock.

DATE: 14 Nov 90

TIME: 12:17

DIRECTION OF  
PHOTOGRAPH:  
southeast

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles Hall

SAMPLE ID  
(if applicable):  
n/a



DESCRIPTION: View of the front of Venus' building.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 13 OF 16

U.S. EPA ID: ILD 002 992 220

TOD: F05-8912-100

PAR: FIL0319SB

DATE: 14 Nov 90

TIME: 13:55

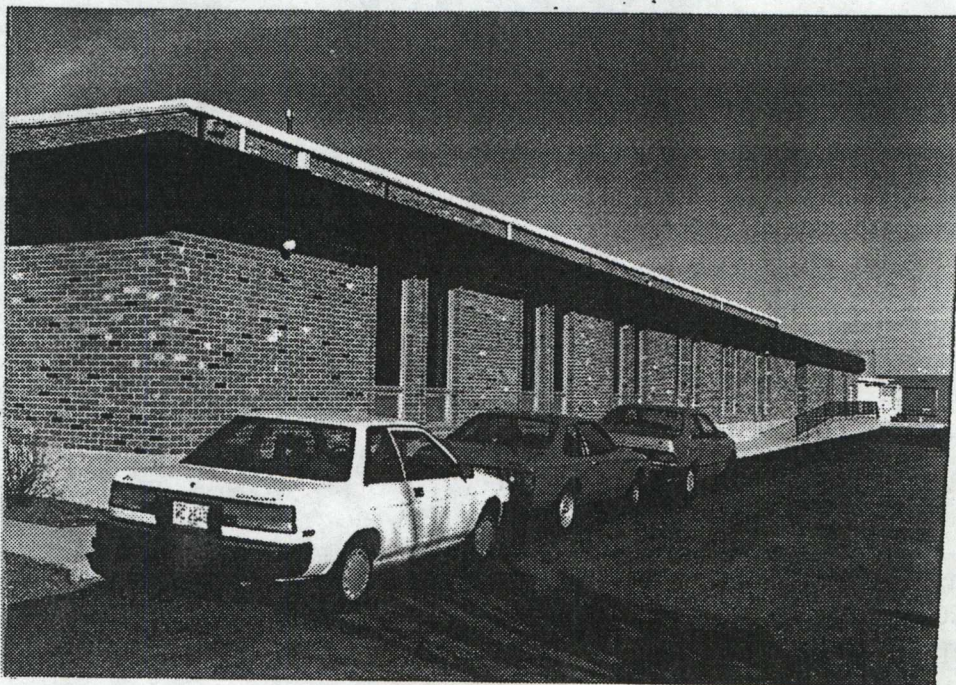
DIRECTION OF  
PHOTOGRAPH:  
northeast

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles Hall

SAMPLE ID  
(if applicable):  
n/a



DESCRIPTION: View of the south side of Venus' building.

DATE: 14 Nov 90

TIME: 11:52

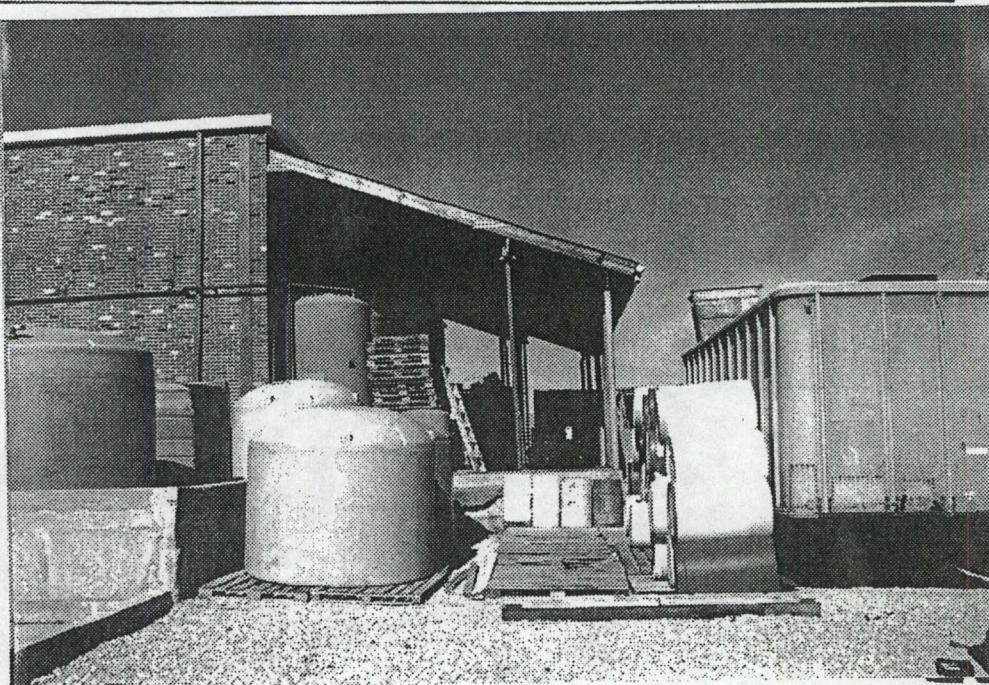
DIRECTION OF  
PHOTOGRAPH:  
north

WEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles Hall

SAMPLE ID  
(if applicable):  
n/a



DESCRIPTION: Patio storage area, empty 55-gallon drums,  
and one of six storage semi-trailers.

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Venus Laboratories, Inc.

PAGE 14 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

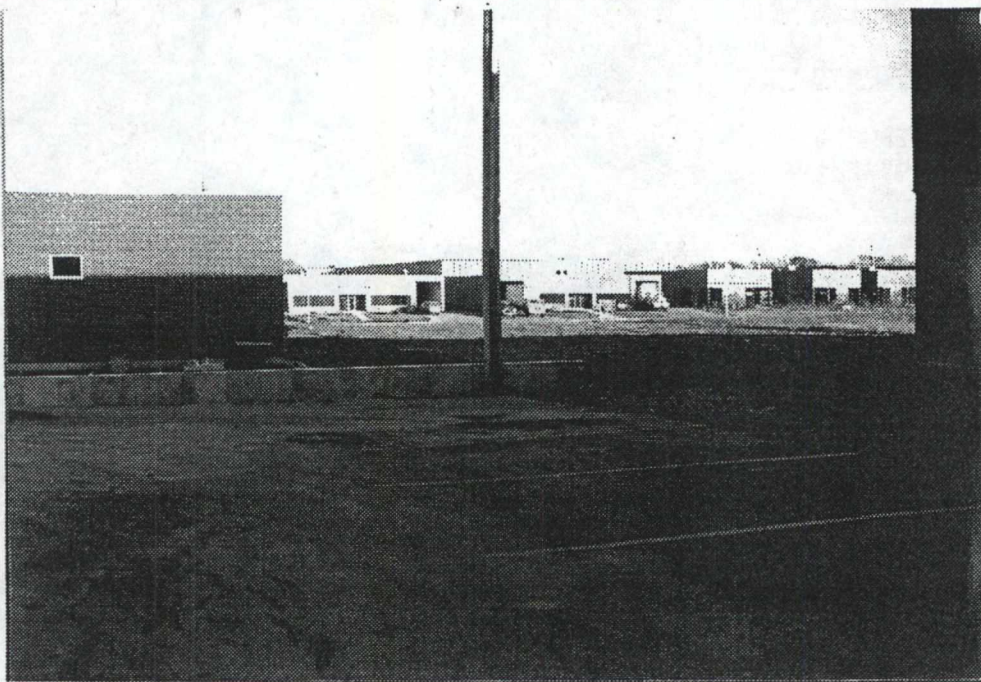
PAN: FIL0319SB

DATE: 14 Nov 90

TIME: 15:25

DIRECTION OF  
PHOTOGRAPH:  
eastWEATHER  
CONDITIONS:

sunny, clear 50s F

PHOTOGRAPHED BY:  
Charles HallSAMPLE ID  
(if applicable):  
n/a

DESCRIPTION: Rear berm to prevent run-off. The road east of the open field is Robert St., from which off-site reconnaissance photographs were taken.

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME:

Venus Laboratories, Inc.

PAGE 15 OF 16

U.S. EPA ID:

ILD 002 992 220

TDD:

F05-8912-100

PAM:

FIL0319SB

DATE: 20 July 1990

TIME: 12:45

DIRECTION OF  
PHOTOGRAPH:

north west

WEATHER

CONDITIONS:

cloudy; thunderstorms

~75°F

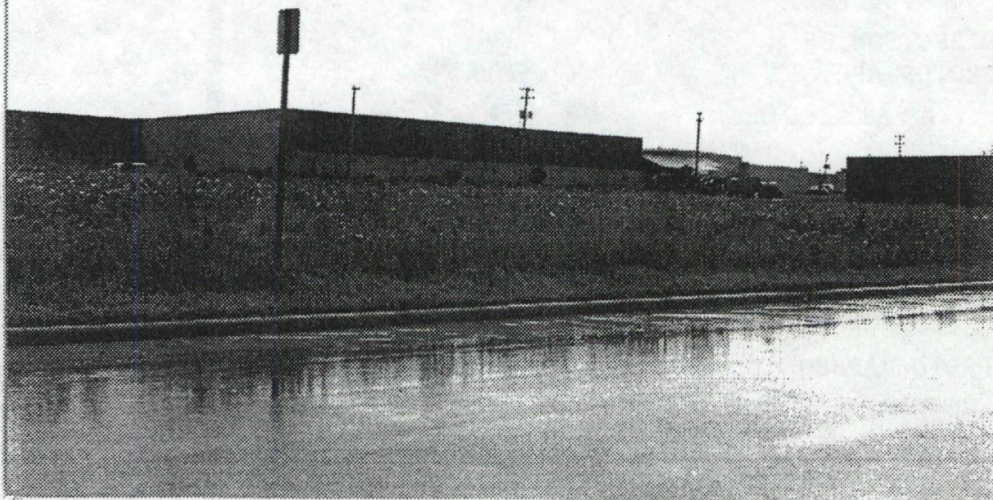
PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

n/a



DESCRIPTION: Rear of Venus Labs (in center right) and adjacent buildings.

DATE: 20 September 90

TIME: 9:05

DIRECTION OF  
PHOTOGRAPH:

North west

WEATHER

CONDITIONS:

sunny; clear

~65°F

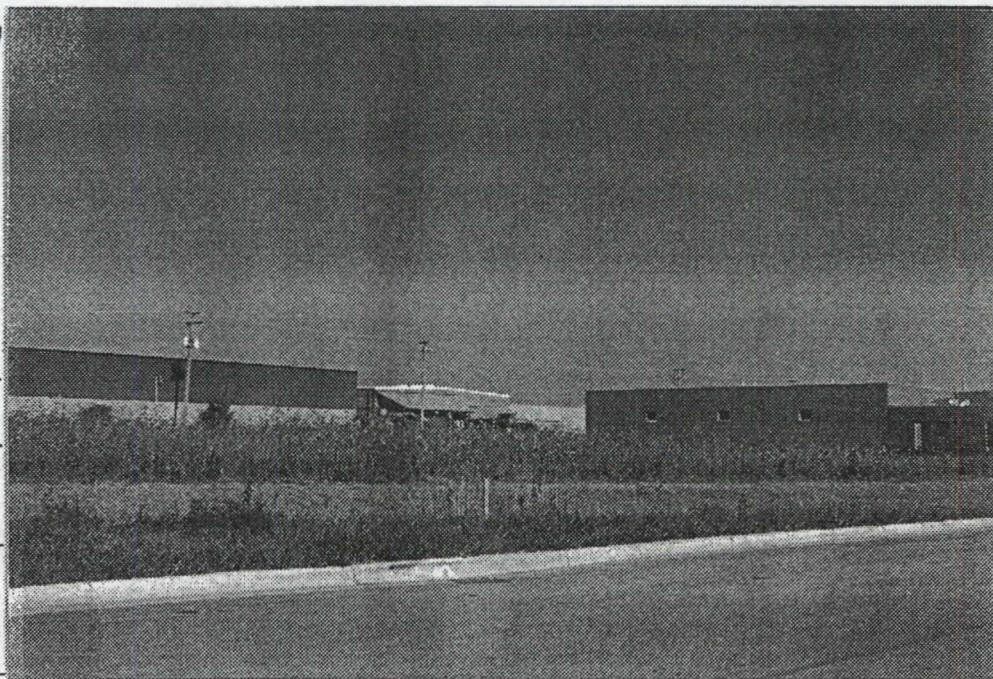
PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

n/a



DESCRIPTION: Rear of Venus Labs (in center right) and adjacent buildings.

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME:

Venus Laboratories, Inc.

PAGE 16 OF 16

U.S. EPA ID: ILD 002 992 220

TDD: F05-8912-100

PAN: FIL0319SB

DATE: 20 Sept 90

TIME: 9:05

DIRECTION OF  
PHOTOGRAPH:

NW

WEATHER

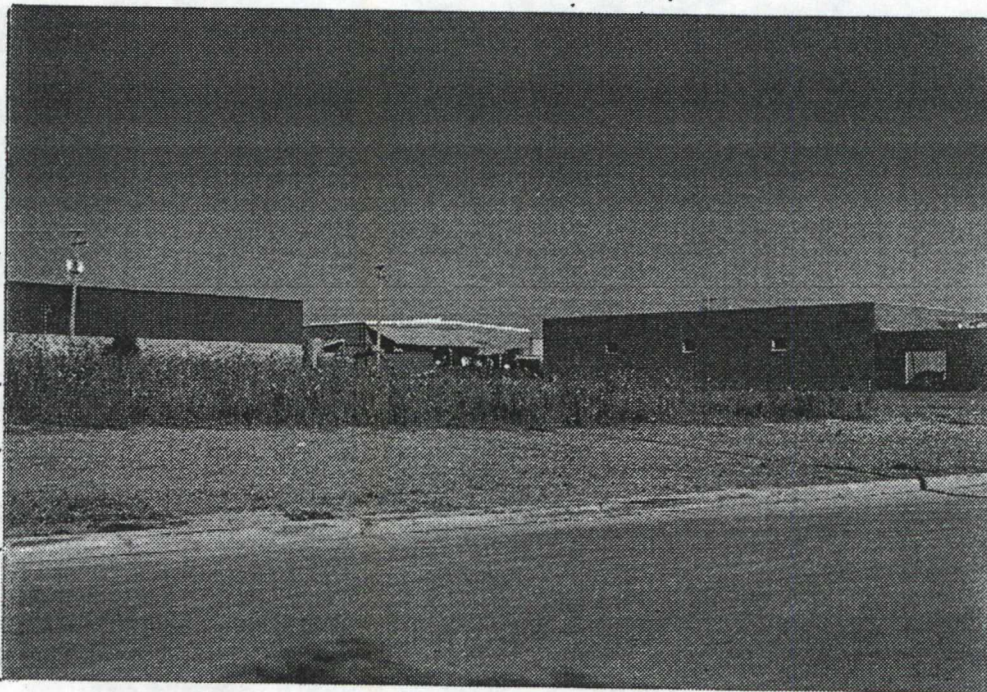
CONDITIONS:

Sunny; clear

~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID  
(if applicable):

DESCRIPTION: Blue tarp covering mound Venus' property.

DATE: 20 Sept 90

TIME: 9:05

DIRECTION OF  
PHOTOGRAPH:

W NW

WEATHER

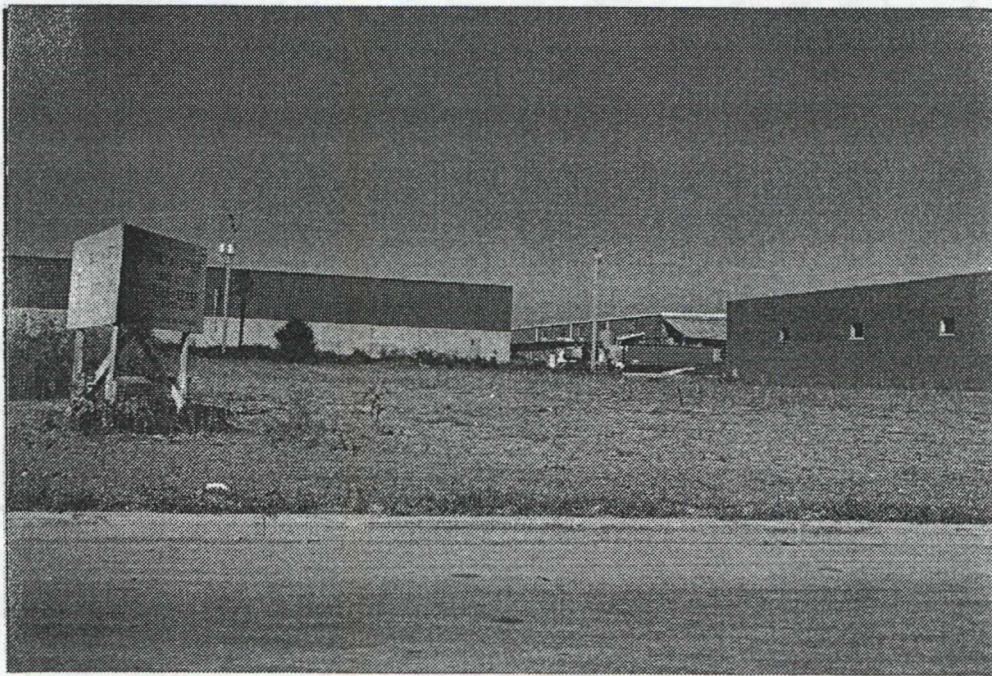
CONDITIONS:

sunny; clear

~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID  
(if applicable):

DESCRIPTION: Backhoe behind telephone poll. Edge of blue tarp.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND  
TARGET ANALYTE LIST  
QUANTITATION/DETECTION LIMITS

Contract Laboratory Program  
Target Compound List  
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL
			SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Toluene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A  
Contract Laboratory Program  
Target Compound List  
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A  
Contract Laboratory Program  
Target Compound List  
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL
			SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A (Cont.)

## CONTRACT LABORATORY PROGRAM

## TARGET ANALYTE LIST (TAL)

## INORGANIC DETECTION LIMITS

Compound	Procedure	Detection Limits	
		Water (µg/L)	Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	5	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

3767:1

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

























# APPENDIX N

## F001 - F005 - SPENT SOLVENTS

	CCW	CCWE
Acetone		0.05 mg/L
Benzene	0.070 mg/L	
n-Butyl alcohol		5.0
Carbon disulfide		1.05
Carbon tetrachloride		0.05
Chlorobenzene		0.15
Cresols (and cresylic acid)		2.82
Cyclohexanone		0.125
1,2-Dichlorobenzene		0.65
Ethyl acetate		0.05
Ethylbenzene		0.05
Ethyl ether		0.05
Isobutanol		5.0
Methanol		0.25
Methylene chloride		0.20
Methyl ethyl ketone		0.05
Methyl isobutyl ketone		0.05
Nitrobenzene		0.66
Pyridine		1.12
Tetrachloroethylene		0.079
Toluene		1.12
1,1,1-Trichloroethane		1.05
1,1,2-Trichloroethane	0.030	
1,1,2-Trichloro-		
1,2,2-Trifluoroethane		1.05
Trichloroethylene		0.062
Trichlorofluoromethane		0.05
Xylene		0.05

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: July 28, 1993

SUBJECT: Venus Labs, Multi-Media Inspection

FROM: Mark Horwitz, Chief *Mark Horwitz*  
Office of Chemical Emergency Preparedness and Prevention, OSF

Bill Messenger, Chief *James Bell*  
Site Assessment Section, OSF *for*

TO: Jan Pfundheller, Acting TAT DFO  
Office of Emergency and Enforcement Response

On August 3, 1993, U.S. EPA will be conducting a Multi-Media Inspection of the Venus Labs facility located at 8950 Lively Boulevard, in Wood Dale, Illinois.  
855

The assistance needed by the EPCRA program would be to take samples of any questionable or non-labeled containers of hazardous materials. Soil and water samples may also be needed to verify if releases of hazardous substances have occurred. Upgradient and downgradient sewer samples may be needed to verify illegal discharging at the time of the inspection. All sampling will be conducted according to the Agency protocols. Contact Ruth Mancos at 312-353-3193 for further direction regarding the EPCRA program needs.

The inspection team may need to conduct ambient air monitoring to ensure the safety of the inspectors when entering and during the inspection process.

The Site Assessment Section will need assistance in collecting and analyzing approximately 5 CLP water samples for organics and inorganics. The water CLP samples will be taken at the sewers, at the point of outfall from the drainage ditch into the creek which is approximately 1/4 mile off-site, and a field duplicate and blank. The TAT team leader should contact Alan Altur at 312-886-0390 to coordinate the CLP paperwork requirements, bottles and preservatives, etc.

CERCLIS ID#	ILD002992220
Site Name	Venus Labs
Type of Activity	Site Inspection
Site Spill ID	ZZ